



From Concept to Completion

STANDARD PARTS CATALOG



From Concept To Completion

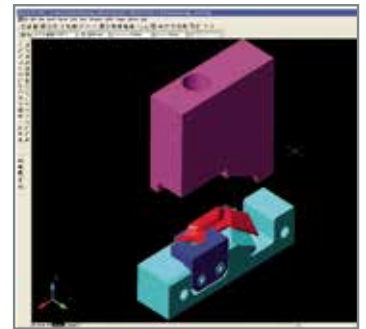
SUPERIOR QUALITY THROUGH EXCEPTIONAL CUSTOMER SERVICE

Franklin Fastener™ provides the highest quality product by working with our customers from concept through prototyping and production. This is not something that can be accomplished by simply placing an order. It can only be done through teamwork – our engineers working with yours. Our hands-on approach to customer service is what separates Franklin Fastener from the pack.

ENGINEERING ASSISTANCE

Franklin Fastener works with you from the earliest product design stage and prototyping to the production of final parts. Through this teamwork, we are able to offer solutions to meet your design and product needs. Your engineers are an integral part of this process. Together, we ensure that your parts are of the highest quality and are cost efficient.

We offer engineering support throughout the design process, including the electronic transfer of engineering drawings. We use SOLIDWORKS™ and Inventor™ in all of our engineering and design work.



We Don't Believe In
Limitations

PRODUCT FOR EVERY INDUSTRY

Franklin Fastener has been designing and manufacturing parts for a diversity of global companies for over 50 years. Our quality products are being produced for a wide range of industries including Off Road Equipment, Heavy Duty Trucks, Military/Aerospace applications, Automotive, and Wind & Solar Energy products. Whether it's adhering to strict specifications or developing new prototypes, Franklin Fastener has the experience and capabilities to produce the parts your specific industry requires.

PROTOTYPES

Prototyping is the area where Franklin Fastener truly distinguishes itself. Since we are not strictly a prototype shop, our engineers work with yours to provide a working part on the very first try. Utilizing specialized software, we are able to speed up the development process and deliver a functioning part that can be mass-produced. The best design and improved functionality are in our best interest because we want to keep you as a customer, not simply coming back to make the same part work.

Franklin Fastener has the capability to produce low volume and short run production prototypes. Working side-by-side with your engineers, we utilize AutoCAD to create prototypes that can be rapidly produced to meet your deadlines. Low volume or short run production is achieved through the use of our in-house universal tooling. Most parts of this type can be produced with minimal to no tooling costs, saving you time and money.

Off Road Equipment



Heavy Duty Trucks



Military Aerospace



Automotive



Wind & Solar





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The parts described herein are manufactured as set forth in the specifications listed for each part. Although we have taken reasonable efforts to include accurate and up to date information in this catalog, we make no warranty or representations as to its accuracy. We assume no liability or responsibility for any errors or omissions in the content of the catalog.

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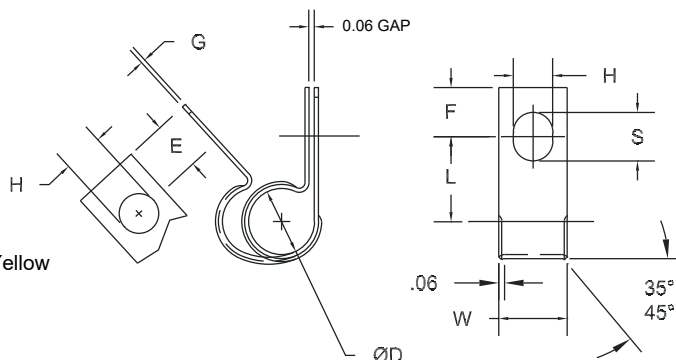
Clip Specifications

Diameter: 3/16" - 1 5/8"
Bolt Size: 1/4", 5/16", 3/8"
Position: Furnished Open
Notes: Light duty clip with flared edges for abrasion resistance, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code: A - ASTM A653 CS Type B G90
 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel
 Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow
 C - SAE 301/304 Stainless Steel

Part Number Call Out

F203-008 A Clamp Plain, Galv, 1/2" Dia, 3/8" Bolt
 Material Code
 Base Part Number



Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole Center to End	Slot Center to End	Material Thickness	Slot Length
	± .015	± .005	± .031	± .010	± .015	± .015	± .002	± .020
F201-003	0.187	0.281	0.468	0.500	0.250	0.296	0.025	0.375
F202-003	0.187	0.343	0.500	0.562	0.281	0.328	0.025	0.437
F203-003	0.187	0.406	0.562	0.625	0.312	0.359	0.025	0.500
F201-004	0.250	0.281	0.500	0.500	0.250	0.296	0.025	0.375
F202-004	0.250	0.343	0.531	0.562	0.281	0.328	0.025	0.437
F203-004	0.250	0.406	0.593	0.625	0.312	0.359	0.025	0.500
F201-005	0.312	0.281	0.531	0.500	0.250	0.296	0.025	0.375
F202-005	0.312	0.343	0.562	0.562	0.281	0.328	0.025	0.437
F203-005	0.312	0.406	0.625	0.625	0.312	0.359	0.025	0.500
F201-006	0.375	0.281	0.562	0.500	0.250	0.296	0.025	0.375
F202-006	0.375	0.343	0.594	0.562	0.281	0.328	0.025	0.437
F203-006	0.375	0.406	0.656	0.625	0.312	0.359	0.025	0.500
F201-007	0.437	0.281	0.593	0.500	0.250	0.296	0.025	0.375
F202-007	0.437	0.343	0.625	0.562	0.281	0.328	0.025	0.437
F203-007	0.437	0.406	0.687	0.625	0.312	0.359	0.025	0.500
F201-008	0.500	0.281	0.625	0.500	0.250	0.296	0.025	0.375
F202-008	0.500	0.343	0.656	0.562	0.281	0.328	0.025	0.437
F203-008	0.500	0.406	0.718	0.625	0.312	0.359	0.025	0.500
F201-009	0.562	0.281	0.656	0.500	0.250	0.296	0.025	0.375
F202-009	0.562	0.343	0.688	0.562	0.281	0.328	0.025	0.437
F203-009	0.562	0.406	0.750	0.625	0.312	0.359	0.025	0.500
F201-010	0.625	0.281	0.687	0.500	0.250	0.296	0.025	0.375
F202-010	0.625	0.343	0.719	0.562	0.281	0.328	0.025	0.437
F203-010	0.625	0.406	0.781	0.625	0.312	0.359	0.025	0.500
F201-011	0.687	0.281	0.718	0.500	0.250	0.296	0.025	0.375
F202-011	0.687	0.343	0.750	0.562	0.281	0.328	0.025	0.437
F203-011	0.687	0.406	0.812	0.625	0.312	0.359	0.025	0.500
F201-012	0.750	0.281	0.750	0.500	0.250	0.296	0.025	0.375
F202-012	0.750	0.343	0.781	0.562	0.281	0.328	0.025	0.437
F203-012	0.750	0.406	0.843	0.625	0.312	0.359	0.025	0.500



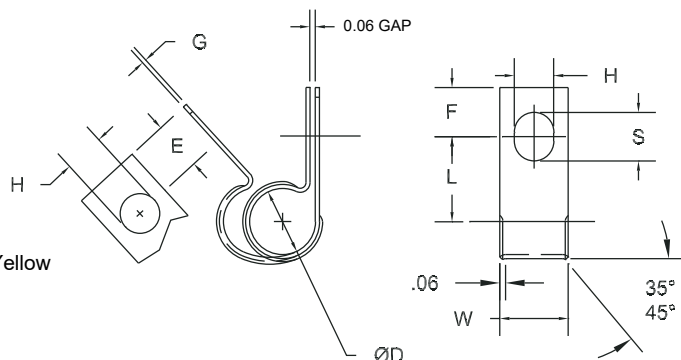
Clip Specifications

Diameter: 3/16" - 1 5/8"
Bolt Size: 1/4", 5/16", 3/8"
Position: Furnished Open
Notes: Light duty clip with flared edges for abrasion resistance, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code: A - ASTM A653 CS Type B G90
 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel
 Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow
 C - SAE 301/304 Stainless Steel

Part Number Call Out

F203-008 A Clamp Plain, Galv, 1/2" Dia, 3/8" Bolt
 Material Code
 Base Part Number



Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole Center to End	Slot Center to End	Material Thickness	Slot Length
	± .015	± .005	± .031	± .010	± .015	± .015	± .002	± .020
F201-013	0.812	0.281	0.781	0.500	0.250	0.296	0.025	0.375
F202-013	0.812	0.343	0.812	0.562	0.281	0.328	0.025	0.437
F203-013	0.812	0.406	0.875	0.625	0.312	0.359	0.025	0.500
F201-014	0.875	0.281	0.812	0.500	0.250	0.296	0.025	0.375
F202-014	0.875	0.343	0.844	0.562	0.281	0.328	0.025	0.437
F203-014	0.875	0.406	0.906	0.625	0.312	0.359	0.025	0.500
F201-015	0.937	0.281	0.843	0.500	0.250	0.296	0.025	0.375
F202-015	0.937	0.343	0.875	0.562	0.281	0.328	0.025	0.437
F203-015	0.937	0.406	0.937	0.625	0.312	0.359	0.025	0.500
F201-016	1.000	0.281	0.875	0.500	0.250	0.296	0.025	0.375
F202-016	1.000	0.343	0.906	0.562	0.281	0.328	0.025	0.437
F203-016	1.000	0.406	0.968	0.625	0.312	0.359	0.025	0.500
F201-017	1.062	0.281	0.906	0.500	0.250	0.296	0.025	0.375
F202-017	1.062	0.343	0.938	0.562	0.281	0.328	0.025	0.437
F203-017	1.062	0.406	1.000	0.625	0.312	0.359	0.025	0.500
F202-019	1.187	0.343	1.000	0.562	0.281	0.328	0.025	0.437
F202-021	1.312	0.343	1.062	0.562	0.281	0.328	0.025	0.437
F202-024	1.500	0.343	1.156	0.562	0.281	0.328	0.025	0.437
F202-026	1.625	0.343	1.219	0.562	0.281	0.328	0.025	0.437



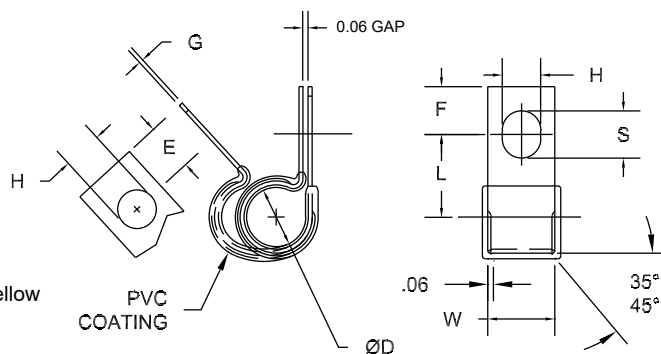
Clip Specifications

Diameter: 1/8" - 1 9/16"
Bolt Size: 1/4", 5/16", 3/8"
Position: Furnished Open
Coating: Black Vinyl Plastisol Coating Per SAE J200
 0.032" Thick $\pm .015$ "
Notes: Light duty clip with flared edges for abrasion resistance, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code: A - ASTM A653 CS Type B G90
 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel
 Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow

Part Number Call Out

F213-008 A Clamp Coated, Galv, 1/2" Dia, 3/8" Bolt
 ————— Material Code
 ————— Base Part Number



Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole Center to End	Slot Center to End	Material Thickness	Slot Length
	$\pm .015$	$\pm .005$	$\pm .031$	$\pm .010$	$\pm .015$	$\pm .015$	$\pm .002$	$\pm .020$
F211-002	0.125	0.281	0.468	0.500	0.250	0.296	0.025	0.375
F212-002	0.125	0.343	0.500	0.562	0.281	0.328	0.025	0.437
F213-002	0.125	0.406	0.562	0.625	0.312	0.359	0.025	0.500
F211-003	0.187	0.281	0.500	0.500	0.250	0.296	0.025	0.375
F212-003	0.187	0.343	0.531	0.562	0.281	0.328	0.025	0.437
F213-003	0.187	0.406	0.593	0.625	0.312	0.359	0.025	0.500
F211-004	0.250	0.281	0.531	0.500	0.250	0.296	0.025	0.375
F212-004	0.250	0.343	0.562	0.562	0.281	0.328	0.025	0.437
F213-004	0.250	0.406	0.625	0.625	0.312	0.359	0.025	0.500
F211-005	0.312	0.281	0.562	0.500	0.250	0.296	0.025	0.375
F212-005	0.312	0.343	0.594	0.562	0.281	0.328	0.025	0.437
F213-005	0.312	0.406	0.656	0.625	0.312	0.359	0.025	0.500
F211-006	0.375	0.281	0.593	0.500	0.250	0.296	0.025	0.375
F212-006	0.375	0.343	0.625	0.562	0.281	0.328	0.025	0.437
F213-006	0.375	0.406	0.687	0.625	0.312	0.359	0.025	0.500
F211-007	0.437	0.281	0.625	0.500	0.250	0.296	0.025	0.375
F212-007	0.437	0.343	0.656	0.562	0.281	0.328	0.025	0.437
F213-007	0.437	0.406	0.718	0.625	0.312	0.359	0.025	0.500
F211-008	0.500	0.281	0.656	0.500	0.250	0.296	0.025	0.375
F212-008	0.500	0.343	0.688	0.562	0.281	0.328	0.025	0.437
F213-008	0.500	0.406	0.750	0.625	0.312	0.359	0.025	0.500
F211-009	0.562	0.281	0.687	0.500	0.250	0.296	0.025	0.375
F212-009	0.562	0.343	0.719	0.562	0.281	0.328	0.025	0.437
F213-009	0.562	0.406	0.781	0.625	0.312	0.359	0.025	0.500
F211-010	0.625	0.281	0.718	0.500	0.250	0.296	0.025	0.375
F212-010	0.625	0.343	0.750	0.562	0.281	0.328	0.025	0.437
F213-010	0.625	0.406	0.812	0.625	0.312	0.359	0.025	0.500
F211-011	0.687	0.281	0.750	0.500	0.250	0.296	0.025	0.375
F212-011	0.687	0.343	0.781	0.562	0.281	0.328	0.025	0.437
F213-011	0.687	0.406	0.843	0.625	0.312	0.359	0.025	0.500



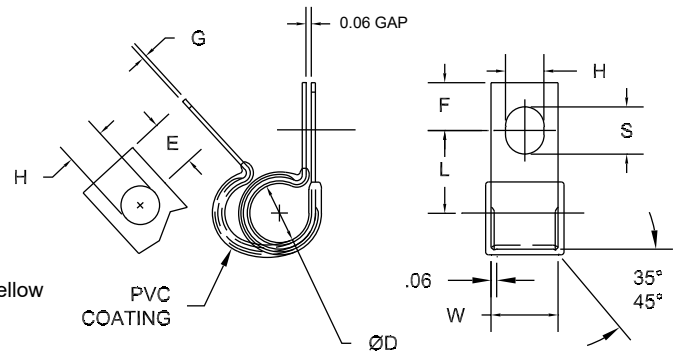
Clip Specifications

Diameter: 1/8" - 1 9/16"
Bolt Size: 1/4", 5/16", 3/8"
Position: Furnished Open
Coating: Black Vinyl Plastisol Coating Per SAE J200
0.032" Thick $\pm .015$ "
Notes: Light duty clip with flared edges for abrasion resistance, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code: A - ASTM A653 CS Type B G90
Galvanized Steel
B - ASTM A1008 CS Type B Low Carbon Steel
Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow

Part Number Call Out

F213-008 A Clamp Coated, Galv, 1/2" Dia, 3/8" Bolt
Material Code
Base Part Number



Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole Center to End	Slot Center to End	Material Thickness	Slot Length
	$\pm .015$	$\pm .005$	$\pm .031$	$\pm .010$	$\pm .015$	$\pm .015$	$\pm .002$	$\pm .020$
F211-012	0.750	0.281	0.781	0.500	0.250	0.296	0.025	0.375
F212-012	0.750	0.343	0.812	0.562	0.281	0.328	0.025	0.437
F213-012	0.750	0.406	0.875	0.625	0.312	0.359	0.025	0.500
F211-013	0.812	0.281	0.812	0.500	0.250	0.296	0.025	0.375
F212-013	0.812	0.343	0.844	0.562	0.281	0.328	0.025	0.437
F213-013	0.812	0.406	0.906	0.625	0.312	0.359	0.025	0.500
F211-014	0.875	0.281	0.843	0.500	0.250	0.296	0.025	0.375
F212-014	0.875	0.343	0.875	0.562	0.281	0.328	0.025	0.437
F213-014	0.875	0.406	0.937	0.625	0.312	0.359	0.025	0.500
F211-015	0.937	0.281	0.875	0.500	0.250	0.296	0.025	0.375
F212-015	0.937	0.343	0.906	0.562	0.281	0.328	0.025	0.437
F213-015	0.937	0.406	0.968	0.625	0.312	0.359	0.025	0.500
F211-016	1.000	0.281	0.906	0.500	0.250	0.296	0.025	0.375
F212-016	1.000	0.343	0.938	0.562	0.281	0.328	0.025	0.437
F213-016	1.000	0.406	1.000	0.625	0.312	0.359	0.025	0.500
F212-018	1.125	0.343	1.000	0.562	0.281	0.328	0.025	0.437
F212-020	1.250	0.343	1.062	0.562	0.281	0.328	0.025	0.437
F212-023	1.438	0.343	1.156	0.562	0.281	0.328	0.025	0.437
F212-025	1.562	0.343	1.219	0.562	0.281	0.328	0.025	0.437



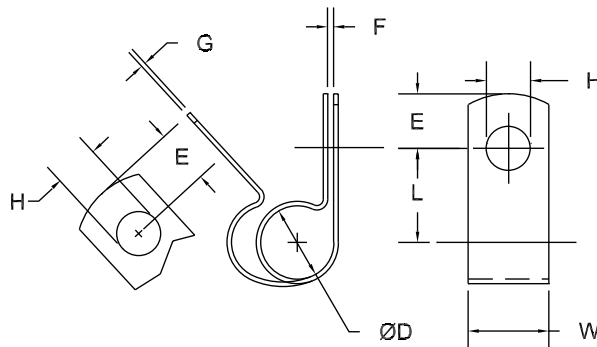
Clip Specifications

Diameter: 1/8" - 1 1/16"
Bolt Size: #8 - #10
Position: Furnished Open
Notes: Light duty clip that can be slipped over a tube or wire and closed with a screw at assembly, two round holes and a developed shape for proper closing.

Material Code: A - ASTM A653 CS Type B G90
 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel
 Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow
 C - SAE 301/304 Stainless Steel

Part Number Call Out

F221-004 A Clamp Plain, Galv, #8 Screw
 Material Code
 Base Part Number



Different sizes, materials, and/or finishes not shown can be manufactured to meet your specifications

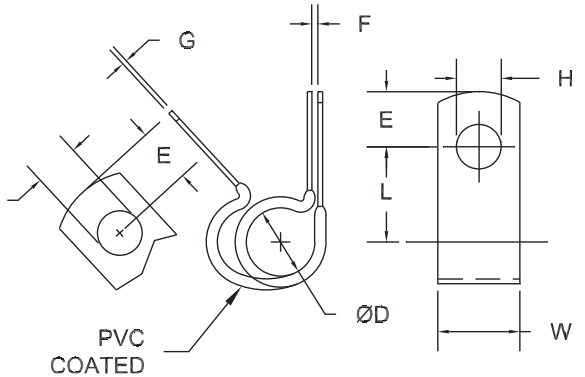
Base Part Number	D	H	L	W	E	F	G
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole Center to End	Gap	Material Thickness
	± .015	± .005	± .031	± .010	± .015	± .032	± .002
F221-002	0.125	0.172	0.297	0.375	0.187	0.062	0.032
F222-002	0.125	0.203	0.375	0.500	0.218	0.062	0.032
F221-003	0.187	0.172	0.328	0.375	0.187	0.062	0.032
F222-003	0.187	0.203	0.375	0.500	0.218	0.062	0.032
F221-004	0.250	0.172	0.344	0.375	0.187	0.062	0.032
F222-004	0.250	0.203	0.406	0.500	0.218	0.062	0.032
F221-005	0.312	0.172	0.375	0.375	0.187	0.062	0.032
F222-005	0.312	0.203	0.437	0.500	0.218	0.062	0.032
F221-006	0.375	0.172	0.406	0.375	0.187	0.062	0.032
F222-006	0.375	0.203	0.468	0.500	0.218	0.062	0.032
F221-007	0.437	0.172	0.437	0.375	0.187	0.062	0.032
F222-007	0.437	0.203	0.500	0.500	0.218	0.062	0.032
F221-008	0.500	0.172	0.468	0.375	0.187	0.062	0.032
F222-008	0.500	0.203	0.531	0.500	0.218	0.062	0.032
F221-009	0.562	0.172	0.500	0.375	0.187	0.062	0.032
F222-009	0.562	0.203	0.562	0.500	0.218	0.062	0.032
F221-010	0.625	0.172	0.531	0.375	0.187	0.062	0.032
F222-010	0.625	0.203	0.593	0.500	0.218	0.062	0.032
F222-011	0.687	0.203	0.625	0.500	0.218	0.062	0.032
F222-012	0.750	0.203	0.656	0.500	0.218	0.062	0.032
F222-013	0.812	0.203	0.687	0.500	0.218	0.062	0.032
F222-014	0.875	0.203	0.718	0.500	0.218	0.062	0.032
F222-015	0.937	0.203	0.750	0.500	0.218	0.062	0.032
F222-016	1.000	0.203	0.781	0.500	0.218	0.062	0.032
F222-017	1.062	0.203	0.812	0.500	0.218	0.062	0.032



Clip Specifications

Diameter: 1/8" - 1"
Bolt Size: #8 - #10
Position: Furnished Open
Coating: Black Vinyl Plastisol Coating Per SAE J200
 0.032" Thick $\pm .015$ "
Notes: Light duty clip that can be slipped over a tube or wire and closed with a screw at assembly, two round holes and a developed shape for proper closing. H

Material Code: A - ASTM A653 CS Type B G90
 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel
 Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow



Part Number Call Out

F231-004 A — Clamp Coated, Galv, #8 Screw
 — Material Code
 — Base Part Number

Different sizes, materials, and/or finishes not shown can be manufactured to meet your specifications

Base Part Number	D	H	L	W	E	F	G
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole Center to End	Gap	Material Thickness
	$\pm .015$	$\pm .005$	$\pm .031$	$\pm .010$	$\pm .015$	$\pm .032$	$\pm .002$
F231-002	0.125	0.172	0.328	0.375	0.187	0.062	0.032
F232-002	0.125	0.203	0.375	0.500	0.218	0.062	0.032
F231-003	0.187	0.172	0.344	0.375	0.187	0.062	0.032
F232-003	0.187	0.203	0.406	0.500	0.218	0.062	0.032
F231-004	0.250	0.172	0.375	0.375	0.187	0.062	0.032
F232-004	0.250	0.203	0.437	0.500	0.218	0.062	0.032
F231-005	0.312	0.172	0.406	0.375	0.187	0.062	0.032
F232-005	0.312	0.203	0.468	0.500	0.218	0.062	0.032
F231-006	0.375	0.172	0.437	0.375	0.187	0.062	0.032
F232-006	0.375	0.203	0.500	0.500	0.218	0.062	0.032
F231-007	0.437	0.172	0.468	0.375	0.187	0.062	0.032
F232-007	0.437	0.203	0.531	0.500	0.218	0.062	0.032
F231-008	0.500	0.172	0.500	0.375	0.187	0.062	0.032
F232-008	0.500	0.203	0.562	0.500	0.218	0.062	0.032
F231-009	0.562	0.172	0.531	0.375	0.187	0.062	0.032
F232-009	0.562	0.203	0.593	0.500	0.218	0.062	0.032
F231-010	0.625	0.172	0.562	0.375	0.187	0.062	0.032
F232-010	0.625	0.203	0.625	0.500	0.218	0.062	0.032
F232-011	0.687	0.203	0.656	0.500	0.218	0.062	0.032
F232-012	0.750	0.203	0.687	0.500	0.218	0.062	0.032
F232-013	0.812	0.203	0.718	0.500	0.218	0.062	0.032
F232-014	0.875	0.203	0.750	0.500	0.218	0.062	0.032
F232-015	0.937	0.203	0.781	0.500	0.218	0.062	0.032
F232-016	1.000	0.203	0.812	0.500	0.218	0.062	0.032

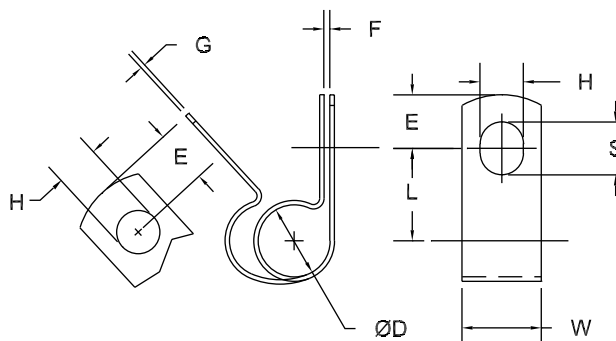


300 SERIES MEDIUM DUTY CLAMP — PLAIN

Clip Specifications

Diameter: 1/8" - 4 1/16"
Bolt Size: 1/4" - 1/2"
Position: Furnished Open
Notes: Medium duty clip that can be slipped over a tube or wire and closed with a bolt at assembly, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code: A - ASTM A653 CS Type B G90
 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel
 Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow
 C - SAE 301/304 Stainless Steel



Part Number Call Out

F303-008 A Clamp Plain, Galv, 1/2" Dia, 3/8" Bolt
 ————— Material Code
 ————— Base Part Number

Different sizes, materials, and/or finishes not shown can be manufactured to meet your specifications

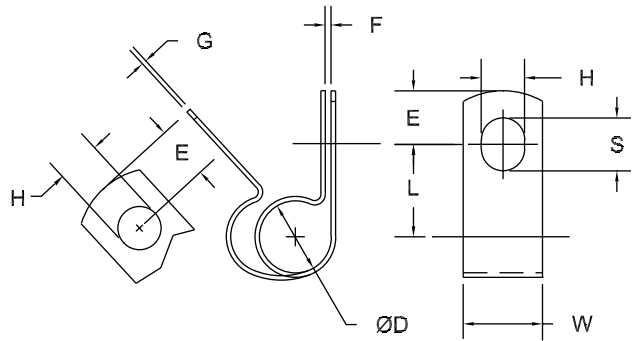
Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Gap	Material Thickness	Slot Length
	± .015	± .005	± .031	± .010	± .015	± .032	± .002	± .020
F301-002	0.125	0.281	0.468	0.500	0.312	0.031	0.032	0.375
F302-002	0.125	0.343	0.531	0.625	0.375	0.031	0.032	0.437
F303-002	0.125	0.406	0.593	0.750	0.437	0.031	0.032	0.500
F301-003	0.187	0.281	0.468	0.500	0.312	0.031	0.032	0.375
F302-003	0.187	0.343	0.531	0.625	0.375	0.031	0.032	0.437
F303-003	0.187	0.406	0.593	0.750	0.437	0.031	0.032	0.500
F301-004	0.250	0.281	0.500	0.500	0.312	0.031	0.032	0.375
F302-004	0.250	0.343	0.562	0.625	0.375	0.031	0.032	0.437
F303-004	0.250	0.406	0.625	0.750	0.437	0.031	0.032	0.500
F301-005	0.312	0.281	0.531	0.500	0.312	0.031	0.032	0.375
F302-005	0.312	0.343	0.593	0.625	0.375	0.031	0.032	0.437
F303-005	0.312	0.406	0.656	0.750	0.437	0.031	0.032	0.500
F301-006	0.375	0.281	0.562	0.500	0.312	0.031	0.032	0.375
F302-006	0.375	0.343	0.625	0.625	0.375	0.031	0.032	0.437
F303-006	0.375	0.406	0.687	0.750	0.437	0.031	0.032	0.500
F301-007	0.437	0.281	0.593	0.500	0.312	0.062	0.032	0.375
F302-007	0.437	0.343	0.656	0.625	0.375	0.062	0.032	0.437
F303-007	0.437	0.406	0.718	0.750	0.437	0.062	0.032	0.500
F304-007	0.437	0.468	0.781	0.875	0.500	0.062	0.032	0.562
F301-008	0.500	0.281	0.625	0.500	0.312	0.062	0.048	0.375
F302-008	0.500	0.343	0.687	0.625	0.375	0.062	0.048	0.437
F303-008	0.500	0.406	0.750	0.750	0.437	0.062	0.048	0.500
F304-008	0.500	0.468	0.812	0.875	0.500	0.062	0.048	0.562
F305-008	0.500	0.531	0.875	1.000	0.562	0.062	0.048	0.625
F301-009	0.562	0.281	0.656	0.500	0.312	0.062	0.048	0.375
F302-009	0.562	0.343	0.718	0.625	0.375	0.062	0.048	0.437
F303-009	0.562	0.406	0.781	0.750	0.437	0.062	0.048	0.500
F304-009	0.562	0.468	0.843	0.875	0.500	0.062	0.048	0.562
F305-009	0.562	0.531	0.906	1.000	0.562	0.062	0.048	0.625



Clip Specifications

Diameter: 1/8" - 4 1/16"
Bolt Size: 1/4" - 1/2"
Position: Furnished Open
Notes: Medium duty clip that can be slipped over a tube or wire and closed with a bolt at assembly, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code: A - ASTM A653 CS Type B G90
 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel
 Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow
 C - SAE 301/304 Stainless Steel



Part Number Call Out

F303-008 A Clamp Plain, Galv, 1/2" Dia, 3/8" Bolt
 ————— Material Code
 ————— Base Part Number

Different sizes, materials, and/or finishes not shown can be manufactured to meet your specifications

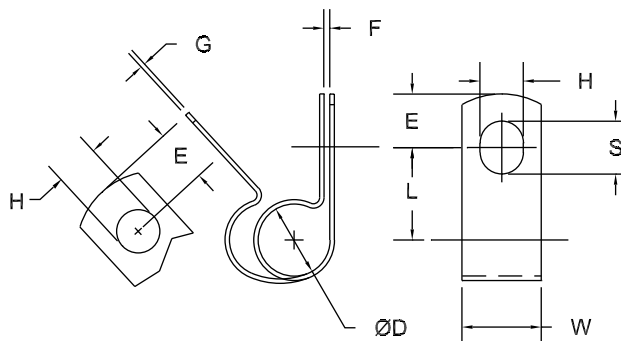
Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Gap	Material Thickness	Slot Length
	± .015	± .005	± .031	± .010	± .015	± .032	± .002	± .020
F301-010	0.625	0.281	0.687	0.500	0.312	0.062	0.048	0.375
F302-010	0.625	0.343	0.750	0.625	0.375	0.062	0.048	0.437
F303-010	0.625	0.406	0.812	0.750	0.437	0.062	0.048	0.500
F304-010	0.625	0.468	0.875	0.875	0.500	0.062	0.048	0.562
F305-010	0.625	0.531	0.937	1.000	0.562	0.062	0.048	0.625
F301-011	0.687	0.281	0.718	0.500	0.312	0.062	0.048	0.375
F302-011	0.687	0.343	0.781	0.625	0.375	0.062	0.048	0.437
F303-011	0.687	0.406	0.843	0.750	0.437	0.062	0.048	0.500
F304-011	0.687	0.468	0.906	0.875	0.500	0.062	0.048	0.562
F305-011	0.687	0.531	0.968	1.000	0.562	0.062	0.048	0.625
F301-012	0.750	0.281	0.750	0.500	0.312	0.062	0.048	0.375
F302-012	0.750	0.343	0.812	0.625	0.375	0.062	0.048	0.437
F303-012	0.750	0.406	0.875	0.750	0.437	0.062	0.048	0.500
F304-012	0.750	0.468	0.937	0.875	0.500	0.062	0.048	0.562
F305-012	0.750	0.531	1.000	1.000	0.562	0.062	0.048	0.625
F301-013	0.812	0.281	0.781	0.500	0.312	0.062	0.048	0.375
F302-013	0.812	0.343	0.843	0.625	0.375	0.062	0.048	0.437
F303-013	0.812	0.406	0.906	0.750	0.437	0.062	0.048	0.500
F304-013	0.812	0.468	0.968	0.875	0.500	0.062	0.048	0.562
F305-013	0.812	0.531	1.031	1.000	0.562	0.062	0.048	0.625
F301-014	0.875	0.281	0.812	0.500	0.312	0.062	0.048	0.375
F302-014	0.875	0.343	0.875	0.625	0.375	0.062	0.048	0.437
F303-014	0.875	0.406	0.937	0.750	0.437	0.062	0.048	0.500
F304-014	0.875	0.468	1.000	0.875	0.500	0.062	0.048	0.562
F305-014	0.875	0.531	1.062	1.000	0.562	0.062	0.048	0.625
F301-015	0.937	0.281	0.843	0.500	0.312	0.062	0.048	0.375
F302-015	0.937	0.343	0.906	0.625	0.375	0.062	0.048	0.437
F303-015	0.937	0.406	0.968	0.750	0.437	0.062	0.048	0.500
F304-015	0.937	0.468	1.031	0.875	0.500	0.062	0.048	0.562
F305-015	0.937	0.531	1.093	1.000	0.562	0.062	0.048	0.625



Clip Specifications

Diameter: 1/8" - 4 1/16"
Bolt Size: 1/4" - 1/2"
Position: Furnished Open
Notes: Medium duty clip that can be slipped over a tube or wire and closed with a bolt at assembly, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code: A - ASTM A653 CS Type B G90
 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel
 Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow
 C - SAE 301/304 Stainless Steel



Part Number Call Out

F303-008 A Clamp Plain, Galv, 1/2" Dia, 3/8" Bolt
 Material Code
 Base Part Number

Different sizes, materials, and/or finishes not shown can be manufactured to meet your specifications

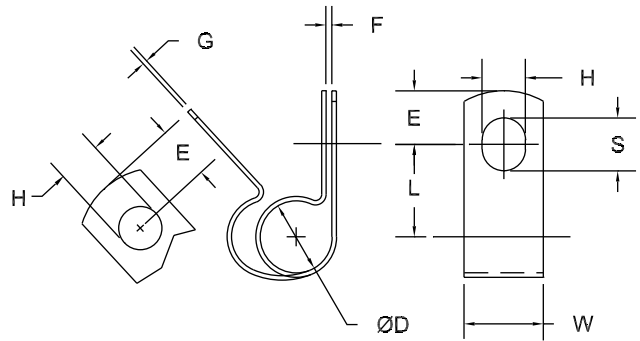
Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Gap	Material Thickness	Slot Length
	± .015	± .005	± .031	± .010	± .015	± .032	± .002	± .020
F301-016	1.000	0.281	0.875	0.500	0.312	0.062	0.048	0.375
F302-016	1.000	0.343	0.937	0.625	0.375	0.062	0.048	0.437
F303-016	1.000	0.406	1.000	0.750	0.437	0.062	0.048	0.500
F304-016	1.000	0.468	1.062	0.875	0.500	0.062	0.048	0.562
F305-016	1.000	0.531	1.125	1.000	0.562	0.062	0.048	0.625
F301-017	1.062	0.281	0.906	0.500	0.312	0.062	0.048	0.375
F302-017	1.062	0.343	0.968	0.625	0.375	0.062	0.048	0.437
F303-017	1.062	0.406	1.031	0.750	0.437	0.062	0.048	0.500
F304-017	1.062	0.468	1.093	0.875	0.500	0.062	0.048	0.562
F305-017	1.062	0.531	1.156	1.000	0.562	0.062	0.048	0.625
F301-018	1.125	0.281	0.937	0.500	0.312	0.062	0.048	0.375
F302-018	1.125	0.343	1.000	0.625	0.375	0.062	0.048	0.437
F303-018	1.125	0.406	1.062	0.750	0.437	0.062	0.048	0.500
F304-018	1.125	0.468	1.125	0.875	0.500	0.062	0.048	0.562
F305-018	1.125	0.531	1.187	1.000	0.562	0.062	0.048	0.625
F301-019	1.187	0.281	0.968	0.500	0.312	0.062	0.048	0.375
F302-019	1.187	0.343	1.031	0.625	0.375	0.062	0.048	0.437
F303-019	1.187	0.406	1.093	0.750	0.437	0.062	0.048	0.500
F304-019	1.187	0.468	1.156	0.875	0.500	0.062	0.048	0.562
F305-019	1.187	0.531	1.218	1.000	0.562	0.062	0.048	0.625
F301-020	1.250	0.281	1.000	0.500	0.312	0.062	0.048	0.375
F302-020	1.250	0.343	1.062	0.625	0.375	0.062	0.048	0.437
F303-020	1.250	0.406	1.125	0.750	0.437	0.062	0.048	0.500
F304-020	1.250	0.468	1.187	0.875	0.500	0.062	0.048	0.562
F305-020	1.250	0.531	1.250	1.000	0.562	0.062	0.048	0.625
F301-021	1.312	0.281	1.031	0.500	0.312	0.062	0.048	0.375
F302-021	1.312	0.343	1.093	0.625	0.375	0.062	0.048	0.437
F303-021	1.312	0.406	1.156	0.750	0.437	0.062	0.048	0.500
F304-021	1.312	0.468	1.218	0.875	0.500	0.062	0.048	0.562
F305-021	1.312	0.531	1.281	1.000	0.562	0.062	0.048	0.625



Clip Specifications

Diameter: 1/8" - 4 1/16"
Bolt Size: 1/4" - 1/2"
Position: Furnished Open
Notes: Medium duty clip that can be slipped over a tube or wire and closed with a bolt at assembly, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code: A - ASTM A653 CS Type B G90
 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel
 Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow
 C - SAE 301/304 Stainless Steel



Part Number Call Out

F303-008 A Clamp Plain, Galv, 1/2" Dia, 3/8" Bolt
 Material Code
 Base Part Number

Different sizes, materials, and/or finishes not shown can be manufactured to meet your specifications

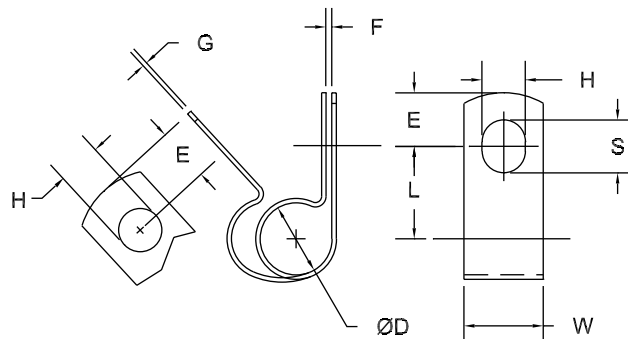
Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Gap	Material Thickness	Slot Length
	± .015	± .005	± .031	± .010	± .015	± .032	± .002	± .020
F301-022	1.375	0.281	1.062	0.500	0.312	0.062	0.048	0.375
F302-022	1.375	0.343	1.125	0.625	0.375	0.062	0.048	0.437
F303-022	1.375	0.406	1.187	0.750	0.437	0.062	0.048	0.500
F304-022	1.375	0.468	1.250	0.875	0.500	0.062	0.048	0.562
F305-022	1.375	0.531	1.312	1.000	0.562	0.062	0.048	0.625
F301-023	1.437	0.281	1.093	0.500	0.312	0.062	0.048	0.375
F302-023	1.437	0.343	1.156	0.625	0.375	0.062	0.048	0.437
F303-023	1.437	0.406	1.218	0.750	0.437	0.062	0.048	0.500
F304-023	1.437	0.468	1.281	0.875	0.500	0.062	0.048	0.562
F305-023	1.437	0.531	1.343	1.000	0.562	0.062	0.048	0.625
F301-024	1.500	0.281	1.125	0.500	0.312	0.062	0.048	0.375
F302-024	1.500	0.343	1.187	0.625	0.375	0.062	0.048	0.437
F303-024	1.500	0.406	1.250	0.750	0.437	0.062	0.048	0.500
F304-024	1.500	0.468	1.312	0.875	0.500	0.062	0.048	0.562
F305-024	1.500	0.531	1.375	1.000	0.562	0.062	0.048	0.625
F301-025	1.562	0.281	1.156	0.500	0.312	0.062	0.048	0.375
F302-025	1.562	0.343	1.218	0.625	0.375	0.062	0.048	0.437
F303-025	1.562	0.406	1.281	0.750	0.437	0.062	0.048	0.500
F304-025	1.562	0.468	1.343	0.875	0.500	0.062	0.048	0.562
F305-025	1.562	0.531	1.406	1.000	0.562	0.062	0.048	0.625
F301-026	1.625	0.281	1.187	0.500	0.312	0.062	0.048	0.375
F302-026	1.625	0.343	1.250	0.625	0.375	0.062	0.048	0.437
F303-026	1.625	0.406	1.312	0.750	0.437	0.062	0.048	0.500
F304-026	1.625	0.468	1.375	0.875	0.500	0.062	0.048	0.562
F305-026	1.625	0.531	1.437	1.000	0.562	0.062	0.048	0.625
F301-027	1.687	0.281	1.218	0.500	0.312	0.062	0.048	0.375
F302-027	1.687	0.343	1.281	0.625	0.375	0.062	0.048	0.437
F303-027	1.687	0.406	1.343	0.750	0.437	0.062	0.048	0.500
F304-027	1.687	0.468	1.406	0.875	0.500	0.062	0.048	0.562
F305-027	1.687	0.531	1.468	1.000	0.562	0.062	0.048	0.625



Clip Specifications

Diameter: 1/8" - 4 1/16"
Bolt Size: 1/4" - 1/2"
Position: Furnished Open
Notes: Medium duty clip that can be slipped over a tube or wire and closed with a bolt at assembly, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code: A - ASTM A653 CS Type B G90
 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel
 Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow
 C - SAE 301/304 Stainless Steel



Part Number Call Out

F303-008 A Clamp Plain, Galv, 1/2" Dia, 3/8" Bolt
 Material Code
 Base Part Number

Different sizes, materials, and/or finishes not shown can be manufactured to meet your specifications

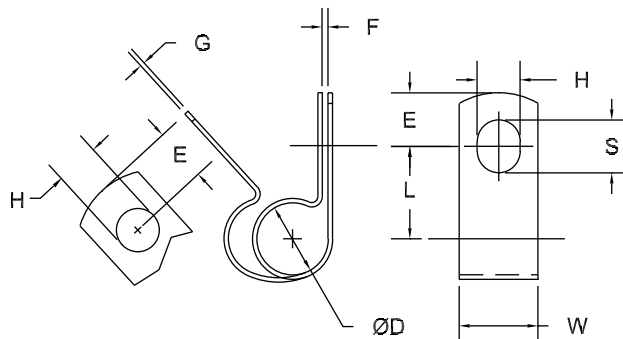
Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Gap	Material Thickness	Slot Length
	± .015	± .005	± .031	± .010	± .015	± .032	± .002	± .020
F301-028	1.750	0.281	1.250	0.500	0.312	0.062	0.048	0.375
F302-028	1.750	0.343	1.312	0.625	0.375	0.062	0.048	0.437
F303-028	1.750	0.406	1.375	0.750	0.437	0.062	0.048	0.500
F304-028	1.750	0.468	1.437	0.875	0.500	0.062	0.048	0.562
F305-028	1.750	0.531	1.500	1.000	0.562	0.062	0.048	0.625
F301-029	1.812	0.281	1.281	0.500	0.312	0.062	0.048	0.375
F302-029	1.812	0.343	1.343	0.625	0.375	0.062	0.048	0.437
F303-029	1.812	0.406	1.406	0.750	0.437	0.062	0.048	0.500
F304-029	1.812	0.468	1.468	0.875	0.500	0.062	0.048	0.562
F305-029	1.812	0.531	1.531	1.000	0.562	0.062	0.048	0.625
F301-030	1.875	0.281	1.312	0.500	0.312	0.062	0.048	0.375
F302-030	1.875	0.343	1.375	0.625	0.375	0.062	0.048	0.437
F303-030	1.875	0.406	1.437	0.750	0.437	0.062	0.048	0.500
F304-030	1.875	0.468	1.500	0.875	0.500	0.062	0.048	0.562
F305-030	1.875	0.531	1.562	1.000	0.562	0.062	0.048	0.625
F301-031	1.937	0.281	1.343	0.500	0.312	0.062	0.048	0.375
F302-031	1.937	0.343	1.406	0.625	0.375	0.062	0.048	0.437
F303-031	1.937	0.406	1.468	0.750	0.437	0.062	0.048	0.500
F304-031	1.937	0.468	1.531	0.875	0.500	0.062	0.048	0.562
F305-031	1.937	0.531	1.593	1.000	0.562	0.062	0.048	0.625
F301-032	2.000	0.281	1.375	0.500	0.312	0.062	0.048	0.375
F302-032	2.000	0.343	1.437	0.625	0.375	0.062	0.048	0.437
F303-032	2.000	0.406	1.500	0.750	0.437	0.062	0.048	0.500
F304-032	2.000	0.468	1.562	0.875	0.500	0.062	0.048	0.562
F305-032	2.000	0.531	1.625	1.000	0.562	0.062	0.048	0.625
F301-033	2.062	0.281	1.437	0.500	0.312	0.062	0.048	0.375
F302-033	2.062	0.343	1.500	0.625	0.375	0.062	0.048	0.437
F303-033	2.062	0.406	1.562	0.750	0.437	0.062	0.048	0.500
F304-033	2.062	0.468	1.625	0.875	0.500	0.062	0.048	0.562
F305-033	2.062	0.531	1.687	1.000	0.562	0.062	0.048	0.625



Clip Specifications

Diameter: 1/8" - 4 1/16"
Bolt Size: 1/4" - 1/2"
Position: Furnished Open
Notes: Medium duty clip that can be slipped over a tube or wire and closed with a bolt at assembly, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code: A - ASTM A653 CS Type B G90
 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel
 Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow
 C - SAE 301/304 Stainless Steel



Part Number Call Out

F303-008 A Clamp Plain, Galv, 1/2" Dia, 3/8" Bolt
 ————— Material Code
 ————— Base Part Number

Different sizes, materials, and/or finishes not shown can be manufactured to meet your specifications

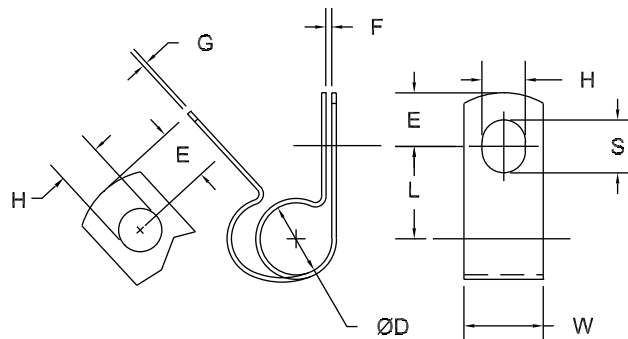
Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Gap	Material Thickness	Slot Length
	± .015	± .005	± .031	± .010	± .015	± .032	± .002	± .020
F301-034	2.125	0.281	1.468	0.500	0.312	0.062	0.048	0.375
F302-034	2.125	0.343	1.531	0.625	0.375	0.062	0.048	0.437
F303-034	2.125	0.406	1.593	0.750	0.437	0.062	0.048	0.500
F304-034	2.125	0.468	1.656	0.875	0.500	0.062	0.048	0.562
F305-034	2.125	0.531	1.718	1.000	0.562	0.062	0.048	0.625
F301-035	2.187	0.281	1.500	0.500	0.312	0.062	0.048	0.375
F302-035	2.187	0.343	1.562	0.625	0.375	0.062	0.048	0.437
F303-035	2.187	0.406	1.625	0.750	0.437	0.062	0.048	0.500
F304-035	2.187	0.468	1.688	0.875	0.500	0.062	0.048	0.562
F305-035	2.187	0.531	1.750	1.000	0.562	0.062	0.048	0.625
F301-036	2.250	0.281	1.531	0.500	0.312	0.062	0.048	0.375
F302-036	2.250	0.343	1.593	0.625	0.375	0.062	0.048	0.437
F303-036	2.250	0.406	1.656	0.750	0.437	0.062	0.048	0.500
F304-036	2.250	0.468	1.718	0.875	0.500	0.062	0.048	0.562
F305-036	2.250	0.531	1.781	1.000	0.562	0.062	0.048	0.625
F301-037	2.312	0.281	1.562	0.500	0.312	0.062	0.048	0.375
F302-037	2.312	0.343	1.625	0.625	0.375	0.062	0.048	0.437
F303-037	2.312	0.406	1.687	0.750	0.437	0.062	0.048	0.500
F304-037	2.312	0.468	1.750	0.875	0.500	0.062	0.048	0.562
F305-037	2.312	0.531	1.812	1.000	0.562	0.062	0.048	0.625
F301-039	2.437	0.281	1.625	0.500	0.312	0.062	0.048	0.375
F302-039	2.437	0.343	1.687	0.625	0.375	0.062	0.048	0.437
F303-039	2.437	0.406	1.750	0.750	0.437	0.062	0.048	0.500
F304-039	2.437	0.468	1.812	0.875	0.500	0.062	0.048	0.562
F305-039	2.437	0.531	1.875	1.000	0.562	0.062	0.048	0.625
F301-041	2.562	0.281	1.687	0.500	0.312	0.062	0.048	0.375
F302-041	2.562	0.343	1.750	0.625	0.375	0.062	0.048	0.437
F303-041	2.562	0.406	1.812	0.750	0.437	0.062	0.048	0.500
F304-041	2.562	0.468	1.875	0.875	0.500	0.062	0.048	0.562
F305-041	2.562	0.531	1.937	1.000	0.562	0.062	0.048	0.625



Clip Specifications

Diameter: 1/8" - 4 1/16"
Bolt Size: 1/4" - 1/2"
Position: Furnished Open
Notes: Medium duty clip that can be slipped over a tube or wire and closed with a bolt at assembly, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code: A - ASTM A653 CS Type B G90
 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel
 Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow
 C - SAE 301/304 Stainless Steel



Part Number Call Out

F303-008 A Clamp Plain, Galv, 1/2" Dia, 3/8" Bolt
 Material Code
 Base Part Number

Different sizes, materials, and/or finishes not shown can be manufactured to meet your specifications

Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Gap	Material Thickness	Slot Length
	± .015	± .005	± .031	± .010	± .015	± .032	± .002	± .020
F301-043	2.687	0.281	1.750	0.500	0.312	0.062	0.048	0.375
F302-043	2.687	0.343	1.812	0.625	0.375	0.062	0.048	0.437
F303-043	2.687	0.406	1.875	0.750	0.437	0.062	0.048	0.500
F304-043	2.687	0.468	1.937	0.875	0.500	0.062	0.048	0.562
F305-043	2.687	0.531	2.000	1.000	0.562	0.062	0.048	0.625
F301-045	2.812	0.281	1.812	0.500	0.312	0.062	0.048	0.375
F302-045	2.812	0.343	1.875	0.625	0.375	0.062	0.048	0.437
F303-045	2.812	0.406	1.937	0.750	0.437	0.062	0.048	0.500
F304-045	2.812	0.468	2.000	0.875	0.500	0.062	0.048	0.562
F305-045	2.812	0.531	2.062	1.000	0.562	0.062	0.048	0.625
F301-047	2.937	0.281	1.875	0.500	0.312	0.062	0.048	0.375
F302-047	2.937	0.343	1.937	0.625	0.375	0.062	0.048	0.437
F303-047	2.937	0.406	2.000	0.750	0.437	0.062	0.048	0.500
F304-047	2.937	0.468	2.062	0.875	0.500	0.062	0.048	0.562
F305-047	2.937	0.531	2.125	1.000	0.562	0.062	0.048	0.625
F301-049	3.062	0.281	1.937	0.500	0.312	0.062	0.048	0.375
F302-049	3.062	0.343	2.000	0.625	0.375	0.062	0.048	0.437
F303-049	3.062	0.406	2.062	0.750	0.437	0.062	0.048	0.500
F304-049	3.062	0.468	2.125	0.875	0.500	0.062	0.048	0.562
F305-049	3.062	0.531	2.187	1.000	0.562	0.062	0.048	0.625
F301-053	3.312	0.281	2.062	0.500	0.312	0.062	0.048	0.375
F302-053	3.312	0.343	2.125	0.625	0.375	0.062	0.048	0.437
F303-053	3.312	0.406	2.187	0.750	0.437	0.062	0.048	0.500
F304-053	3.312	0.468	2.250	0.875	0.500	0.062	0.048	0.562
F305-053	3.312	0.531	2.312	1.000	0.562	0.062	0.048	0.625
F301-057	3.562	0.281	2.187	0.500	0.312	0.062	0.048	0.375
F302-057	3.562	0.343	2.250	0.625	0.375	0.062	0.048	0.437
F303-057	3.562	0.406	2.312	0.750	0.437	0.062	0.048	0.500
F304-057	3.562	0.468	2.375	0.875	0.500	0.062	0.048	0.562
F305-057	3.562	0.531	2.437	1.000	0.562	0.062	0.048	0.625

Diameter:	1/8" - 4 1/16"
Bolt Size:	1/4" - 1/2"
Position:	Furnished Open
Notes:	Medium duty clip that can be slipped over a tube or wire and closed with a bolt at assembly, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

F303-008 A Clamp Plain, Galv, 1/2" Dia, 3/8" Bolt

Material Code

Base Part Number

Different sizes, materials, and/or finishes not shown can be manufactured to meet your specifications

Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Gap	Material Thickness	Slot Length
	± .015	± .005	± .031	± .010	± .015	± .032	± .002	± .020
F301-061	3.812	0.281	2.312	0.500	0.312	0.062	0.048	0.375
F302-061	3.812	0.343	2.375	0.625	0.375	0.062	0.048	0.437
F303-061	3.812	0.406	2.437	0.750	0.437	0.062	0.048	0.500
F304-061	3.812	0.468	2.500	0.875	0.500	0.062	0.048	0.562
F305-061	3.812	0.531	2.562	1.000	0.562	0.062	0.048	0.625
F301-065	4.062	0.281	2.437	0.500	0.312	0.062	0.048	0.375
F302-065	4.062	0.343	2.500	0.625	0.375	0.062	0.048	0.437
F303-065	4.062	0.406	2.562	0.750	0.437	0.062	0.048	0.500
F304-065	4.062	0.468	2.625	0.875	0.500	0.062	0.048	0.562
F305-065	4.062	0.531	2.687	1.000	0.562	0.062	0.048	0.625



310 SERIES MEDIUM DUTY CLAMP — COATED

Clip Specifications

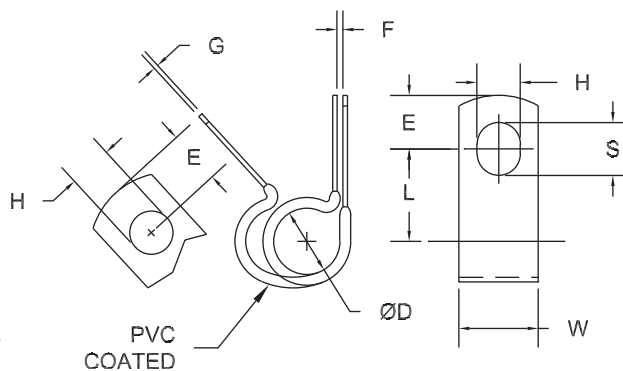
Diameter: 1/8" - 4"
Bolt Size: 1/4" - 1/2"
Position: Furnished Open
Coating: Black Vinyl Plastisol Coating Per SAE J200
 0.032" Thick $\pm .015$ "

Notes: Medium duty clip that can be slipped over a tube or wire and closed with a bolt at assembly, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code: A - ASTM A653 CS Type B G90
 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel
 Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow

Part Number Call Out

F313-008 A Clamp Coated, Galv, 1/2" Dia, 3/8" Bolt
 Material Code
 Base Part Number



Different sizes, materials, and/or finishes not shown can be manufactured to meet your specifications

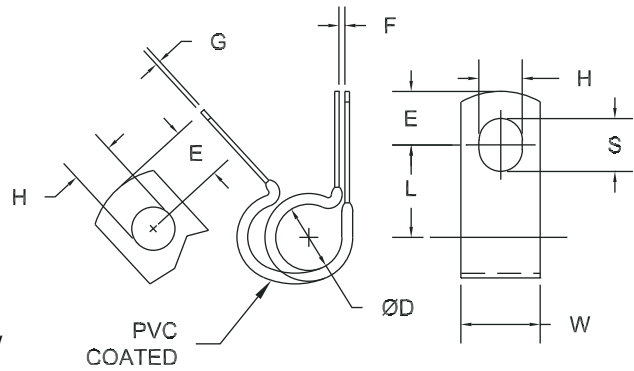
Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Gap	Material Thickness	Slot Length
	$\pm .015$	$\pm .005$	$\pm .031$	$\pm .010$	$\pm .015$	$\pm .032$	$\pm .002$	$\pm .020$
F311-002	0.125	0.281	0.468	0.500	0.312	0.031	0.032	0.375
F312-002	0.125	0.343	0.531	0.625	0.375	0.031	0.032	0.437
F313-002	0.125	0.406	0.593	0.750	0.437	0.031	0.032	0.500
F311-003	0.187	0.281	0.500	0.500	0.312	0.031	0.032	0.375
F312-003	0.187	0.343	0.562	0.625	0.375	0.031	0.032	0.437
F313-003	0.187	0.406	0.625	0.750	0.437	0.031	0.032	0.500
F311-004	0.250	0.281	0.531	0.500	0.312	0.031	0.032	0.375
F312-004	0.250	0.343	0.593	0.625	0.375	0.031	0.032	0.437
F313-004	0.250	0.406	0.656	0.750	0.437	0.031	0.032	0.500
F311-005	0.312	0.281	0.562	0.500	0.312	0.031	0.032	0.375
F312-005	0.312	0.343	0.625	0.625	0.375	0.031	0.032	0.437
F313-005	0.312	0.406	0.687	0.750	0.437	0.031	0.032	0.500
F311-006	0.375	0.281	0.593	0.500	0.312	0.062	0.032	0.375
F312-006	0.375	0.343	0.656	0.625	0.375	0.062	0.032	0.437
F313-006	0.375	0.406	0.718	0.750	0.437	0.062	0.032	0.500
F314-006	0.375	0.468	0.781	0.875	0.500	0.062	0.032	0.562
F311-007	0.437	0.281	0.625	0.500	0.312	0.062	0.048	0.375
F312-007	0.437	0.343	0.687	0.625	0.375	0.062	0.048	0.437
F313-007	0.437	0.406	0.750	0.750	0.437	0.062	0.048	0.500
F314-007	0.437	0.468	0.812	0.875	0.500	0.062	0.048	0.562
F315-007	0.437	0.531	0.875	1.000	0.562	0.062	0.048	0.625
F311-008	0.500	0.281	0.656	0.500	0.312	0.062	0.048	0.375
F312-008	0.500	0.343	0.718	0.625	0.375	0.062	0.048	0.437
F313-008	0.500	0.406	0.781	0.750	0.437	0.062	0.048	0.500
F314-008	0.500	0.468	0.843	0.875	0.500	0.062	0.048	0.562
F315-008	0.500	0.531	0.906	1.000	0.562	0.062	0.048	0.625



Clip Specifications

Diameter: 1/8" - 4"
Bolt Size: 1/4" - 1/2"
Position: Furnished Open
Coating: Black Vinyl Plastisol Coating Per SAE J200
 0.032" Thick $\pm .015$ "
Notes: Medium duty clip that can be slipped over a tube or wire and closed with a bolt at assembly, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code: A - ASTM A653 CS Type B G90
 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel
 Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow



Part Number Call Out

F313-008 A Clamp Coated, Galv, 1/2" Dia, 3/8" Bolt
 Material Code
 Base Part Number

Different sizes, materials, and/or finishes not shown can be manufactured to meet your specifications

Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Gap	Material Thickness	Slot Length
	$\pm .015$	$\pm .005$	$\pm .031$	$\pm .010$	$\pm .015$	$\pm .032$	$\pm .002$	$\pm .020$
F311-009	0.562	0.281	0.687	0.500	0.312	0.062	0.048	0.375
F312-009	0.562	0.343	0.750	0.625	0.375	0.062	0.048	0.437
F313-009	0.562	0.406	0.812	0.750	0.437	0.062	0.048	0.500
F314-009	0.562	0.468	0.875	0.875	0.500	0.062	0.048	0.562
F315-009	0.562	0.531	0.937	1.000	0.562	0.062	0.048	0.625
F311-010	0.625	0.281	0.718	0.500	0.312	0.062	0.048	0.375
F312-010	0.625	0.343	0.781	0.625	0.375	0.062	0.048	0.437
F313-010	0.625	0.406	0.843	0.750	0.437	0.062	0.048	0.500
F314-010	0.625	0.468	0.906	0.875	0.500	0.062	0.048	0.562
F315-010	0.625	0.531	0.968	1.000	0.562	0.062	0.048	0.625
F311-011	0.687	0.281	0.750	0.500	0.312	0.062	0.048	0.375
F312-011	0.687	0.343	0.812	0.625	0.375	0.062	0.048	0.437
F313-011	0.687	0.406	0.875	0.750	0.437	0.062	0.048	0.500
F314-011	0.687	0.468	0.937	0.875	0.500	0.062	0.048	0.562
F315-011	0.687	0.531	1.000	1.000	0.562	0.062	0.048	0.625
F311-012	0.750	0.281	0.781	0.500	0.312	0.062	0.048	0.375
F312-012	0.750	0.343	0.843	0.625	0.375	0.062	0.048	0.437
F313-012	0.750	0.406	0.906	0.750	0.437	0.062	0.048	0.500
F314-012	0.750	0.468	0.968	0.875	0.500	0.062	0.048	0.562
F315-012	0.750	0.531	1.031	1.000	0.562	0.062	0.048	0.625
F311-013	0.812	0.281	0.812	0.500	0.312	0.062	0.048	0.375
F312-013	0.812	0.343	0.875	0.625	0.375	0.062	0.048	0.437
F313-013	0.812	0.406	0.937	0.750	0.437	0.062	0.048	0.500
F314-013	0.812	0.468	1.000	0.875	0.500	0.062	0.048	0.562
F315-013	0.812	0.531	1.062	1.000	0.562	0.062	0.048	0.625
F311-014	0.875	0.281	0.843	0.500	0.312	0.062	0.048	0.375
F312-014	0.875	0.343	0.906	0.625	0.375	0.062	0.048	0.437
F313-014	0.875	0.406	0.968	0.750	0.437	0.062	0.048	0.500
F314-014	0.875	0.468	1.031	0.875	0.500	0.062	0.048	0.562
F315-014	0.875	0.531	1.093	1.000	0.562	0.062	0.048	0.625



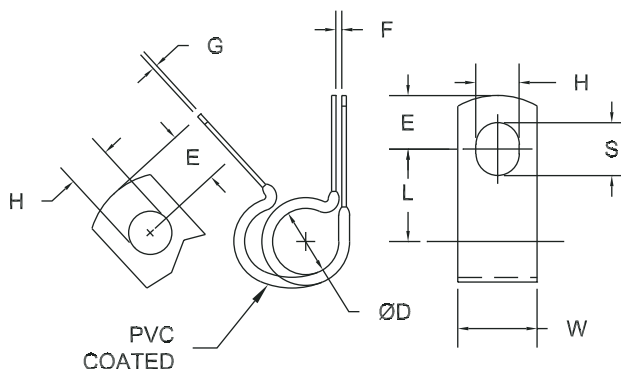
310 SERIES MEDIUM DUTY CLAMP — COATED

Clip Specifications

Diameter: 1/8" - 4"
Bolt Size: 1/4" - 1/2"
Position: Furnished Open
Coating: Black Vinyl Plastisol Coating Per SAE J200
 0.032" Thick $\pm .015$ "

Notes: Medium duty clip that can be slipped over a tube or wire and closed with a bolt at assembly, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code: A - ASTM A653 CS Type B G90
 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel
 Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow



Part Number Call Out

F313-008 A Clamp Coated, Galv, 1/2" Dia, 3/8" Bolt

Material Code
 Base Part Number

Different sizes, materials, and/or finishes not shown can be manufactured to meet your specifications

Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Gap	Material Thickness	Slot Length
	$\pm .015$	$\pm .005$	$\pm .031$	$\pm .010$	$\pm .015$	$\pm .032$	$\pm .002$	$\pm .020$
F311-015	0.937	0.281	0.875	0.500	0.312	0.062	0.048	0.375
F312-015	0.937	0.343	0.937	0.625	0.375	0.062	0.048	0.437
F313-015	0.937	0.406	1.000	0.750	0.437	0.062	0.048	0.500
F314-015	0.937	0.468	1.062	0.875	0.500	0.062	0.048	0.562
F315-015	0.937	0.531	1.125	1.000	0.562	0.062	0.048	0.625
F311-016	1.000	0.281	0.906	0.500	0.312	0.062	0.048	0.375
F312-016	1.000	0.343	0.968	0.625	0.375	0.062	0.048	0.437
F313-016	1.000	0.406	1.031	0.750	0.437	0.062	0.048	0.500
F314-016	1.000	0.468	1.093	0.875	0.500	0.062	0.048	0.562
F315-016	1.000	0.531	1.156	1.000	0.562	0.062	0.048	0.625
F311-017	1.062	0.281	0.937	0.500	0.312	0.062	0.048	0.375
F312-017	1.062	0.343	1.000	0.625	0.375	0.062	0.048	0.437
F313-017	1.062	0.406	1.062	0.750	0.437	0.062	0.048	0.500
F314-017	1.062	0.468	1.125	0.875	0.500	0.062	0.048	0.562
F315-017	1.062	0.531	1.187	1.000	0.562	0.062	0.048	0.625
F311-018	1.125	0.281	0.968	0.500	0.312	0.062	0.048	0.375
F312-018	1.125	0.343	1.031	0.625	0.375	0.062	0.048	0.437
F313-018	1.125	0.406	1.093	0.750	0.437	0.062	0.048	0.500
F314-018	1.125	0.468	1.156	0.875	0.500	0.062	0.048	0.562
F315-018	1.125	0.531	1.218	1.000	0.562	0.062	0.048	0.625
F311-019	1.187	0.281	1.000	0.500	0.312	0.062	0.048	0.375
F312-019	1.187	0.343	1.062	0.625	0.375	0.062	0.048	0.437
F313-019	1.187	0.406	1.125	0.750	0.437	0.062	0.048	0.500
F314-019	1.187	0.468	1.187	0.875	0.500	0.062	0.048	0.562
F315-019	1.187	0.531	1.250	1.000	0.562	0.062	0.048	0.625
F311-020	1.250	0.281	1.031	0.500	0.312	0.062	0.048	0.375
F312-020	1.250	0.343	1.093	0.625	0.375	0.062	0.048	0.437
F313-020	1.250	0.406	1.156	0.750	0.437	0.062	0.048	0.500
F314-020	1.250	0.468	1.218	0.875	0.500	0.062	0.048	0.562
F315-020	1.250	0.531	1.281	1.000	0.562	0.062	0.048	0.625

The technical drawing illustrates a PVC-coated cable assembly. The left side shows a side view of the cable with labels: 'G' for the cable jacket, 'F' for the internal conductors, 'E' for the PVC coating, 'H' for the cable braid, and 'PVC COATED' with an arrow pointing to the coating. The right side shows a cross-sectional view of the cable with labels: 'H' for the cable braid, 'E' for the PVC coating, 'S' for the cable braid, 'L' for the cable length, 'ØD' for the outer diameter, and 'W' for the width.

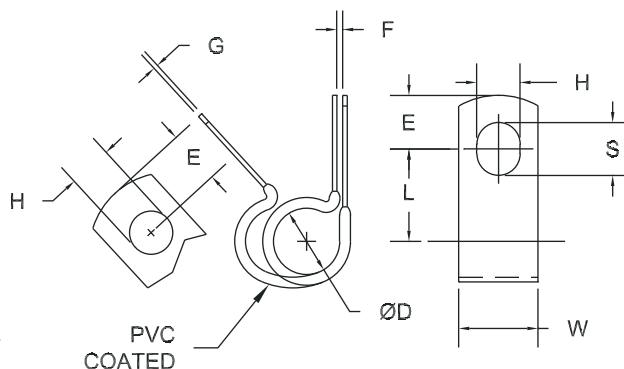
Different sizes, materials, and/or finishes not shown can be manufactured to meet your specifications

19



Diameter:	1/8" - 4"
Bolt Size:	1/4" - 1/2"
Position:	Furnished Open
Coating:	Black Vinyl Plastisol Coating Per SAE J200 0.032" Thick ± .015"
Notes:	Medium duty clip that can be slipped over a tube or wire and closed with a bolt at assembly, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code: A - ASTM A653 CS Type B G90
Galvanized Steel
B - ASTM A1008 CS Type B Low Carbon Steel
Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow



F313-008 A Clamp Coated, Galv, 1/2" Dia, 3/8" Bolt

└── Material Code

└── Base Part Number

Different sizes, materials, and/or finishes not shown can be manufactured to meet your specifications

20 **FRANKLIN FASTENER**
Standard Parts Catalog

800-714-2172 sales@franklinfastener.com www.franklinfastener.com

The technical drawing illustrates a PVC-coated cable assembly. The left view is a side profile showing a cable (G) entering a PVC-coated fitting (E) which is mounted on a base (H). The right view is a cross-section of the assembly, showing the cable (F) with diameter $\varnothing D$ passing through the fitting (E) which has an outer diameter $\varnothing D$. The fitting is mounted on a base (H). The cross-section also shows the internal structure of the fitting, including a central hole (S) and a layer (L). Dimensions are indicated by arrows and labels: G (cable), E (fitting), H (base), F (cable), $\varnothing D$ (cable diameter), S (hole), L (layer), and W (width).



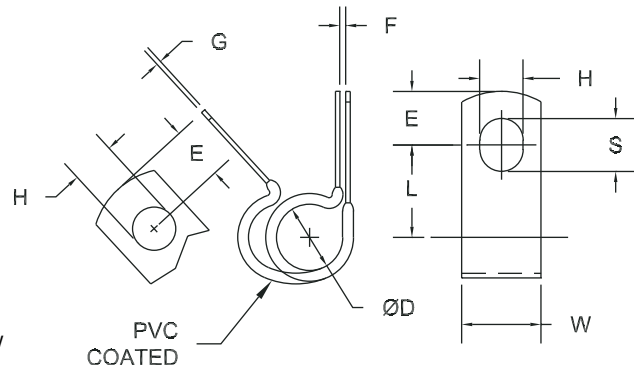
310 SERIES MEDIUM DUTY CLAMP — COATED

Clip Specifications

Diameter: 1/8" - 4"
Bolt Size: 1/4" - 1/2"
Position: Furnished Open
Coating: Black Vinyl Plastisol Coating Per SAE J200
 0.032" Thick $\pm .015$ "

Notes: Medium duty clip that can be slipped over a tube or wire and closed with a bolt at assembly, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code: A - ASTM A653 CS Type B G90
 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel
 Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow



Part Number Call Out

F313-008 A Clamp Coated, Galv, 1/2" Dia, 3/8" Bolt
 — Material Code
 — Base Part Number

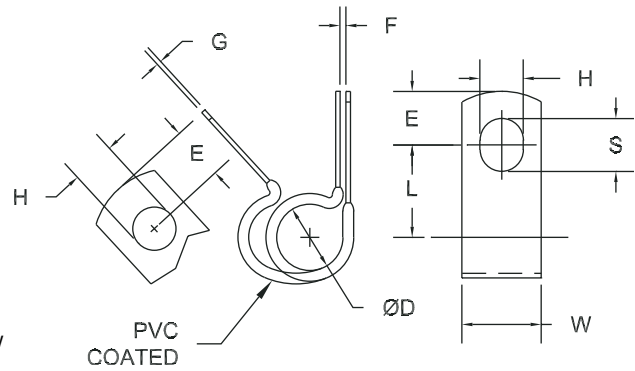
Different sizes, materials, and/or finishes not shown can be manufactured to meet your specifications

Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Gap	Material Thickness	Slot Length
	$\pm .015$	$\pm .005$	$\pm .031$	$\pm .010$	$\pm .015$	$\pm .032$	$\pm .002$	$\pm .020$
F311-042	2.625	0.281	1.750	0.500	0.312	0.062	0.048	0.375
F312-042	2.625	0.343	1.812	0.625	0.375	0.062	0.048	0.437
F313-042	2.625	0.406	1.875	0.750	0.437	0.062	0.048	0.500
F314-042	2.625	0.468	1.937	0.875	0.500	0.062	0.048	0.562
F315-042	2.625	0.531	2.000	1.000	0.562	0.062	0.048	0.625
F311-044	2.750	0.281	1.812	0.500	0.312	0.062	0.048	0.375
F312-044	2.750	0.343	1.875	0.625	0.375	0.062	0.048	0.437
F313-044	2.750	0.406	1.937	0.750	0.437	0.062	0.048	0.500
F314-044	2.750	0.468	2.000	0.875	0.500	0.062	0.048	0.562
F315-044	2.750	0.531	2.062	1.000	0.562	0.062	0.048	0.625
F311-046	2.875	0.281	1.875	0.500	0.312	0.062	0.048	0.375
F312-046	2.875	0.343	1.937	0.625	0.375	0.062	0.048	0.437
F313-046	2.875	0.406	2.000	0.750	0.437	0.062	0.048	0.500
F314-046	2.875	0.468	2.062	0.875	0.500	0.062	0.048	0.562
F315-046	2.875	0.531	2.125	1.000	0.562	0.062	0.048	0.625
F311-048	3.000	0.281	1.937	0.500	0.312	0.062	0.048	0.375
F312-048	3.000	0.343	2.000	0.625	0.375	0.062	0.048	0.437
F313-048	3.000	0.406	2.062	0.750	0.437	0.062	0.048	0.500
F314-048	3.000	0.468	2.125	0.875	0.500	0.062	0.048	0.562
F315-048	3.000	0.531	2.187	1.000	0.562	0.062	0.048	0.625
F311-052	3.250	0.281	2.062	0.500	0.312	0.062	0.048	0.375
F312-052	3.250	0.343	2.125	0.625	0.375	0.062	0.048	0.437
F313-052	3.250	0.406	2.187	0.750	0.437	0.062	0.048	0.500
F314-052	3.250	0.468	2.250	0.875	0.500	0.062	0.048	0.562
F315-052	3.250	0.531	2.312	1.000	0.562	0.062	0.048	0.625
F311-056	3.500	0.281	2.187	0.500	0.312	0.062	0.048	0.375
F312-056	3.500	0.343	2.250	0.625	0.375	0.062	0.048	0.437
F313-056	3.500	0.406	2.312	0.750	0.437	0.062	0.048	0.500
F314-056	3.500	0.468	2.375	0.875	0.500	0.062	0.048	0.562
F315-056	3.500	0.531	2.437	1.000	0.562	0.062	0.048	0.625



Clip Specifications

- Diameter:** 1/8" - 4"
Bolt Size: 1/4" - 1/2"
Position: Furnished Open
Coating: Black Vinyl Plastisol Coating Per SAE J200
 0.032" Thick $\pm .015$ "
Notes: Medium duty clip that can be slipped over a tube or wire and closed with a bolt at assembly, one round hole and one slot for ease of alignment, and a developed shape for proper closing.
Material Code: A - ASTM A653 CS Type B G90
 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel
 Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow



Part Number Call Out

F313-008 A Clamp Coated, Galv, 1/2" Dia, 3/8" Bolt
 Material Code
 Base Part Number

Different sizes, materials, and/or finishes not shown can be manufactured to meet your specifications

Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Gap	Material Thickness	Slot Length
	$\pm .015$	$\pm .005$	$\pm .031$	$\pm .010$	$\pm .015$	$\pm .032$	$\pm .002$	$\pm .020$
F311-060	3.750	0.281	2.312	0.500	0.312	0.062	0.048	0.375
F312-060	3.750	0.343	2.375	0.625	0.375	0.062	0.048	0.437
F313-060	3.750	0.406	2.437	0.750	0.437	0.062	0.048	0.500
F314-060	3.750	0.468	2.500	0.875	0.500	0.062	0.048	0.562
F315-060	3.750	0.531	2.562	1.000	0.562	0.062	0.048	0.625
F311-064	4.000	0.281	2.437	0.500	0.312	0.062	0.048	0.375
F312-064	4.000	0.343	2.500	0.625	0.375	0.062	0.048	0.437
F313-064	4.000	0.406	2.562	0.750	0.437	0.062	0.048	0.500
F314-064	4.000	0.468	2.625	0.875	0.500	0.062	0.048	0.562
F315-064	4.000	0.531	2.687	1.000	0.562	0.062	0.048	0.625



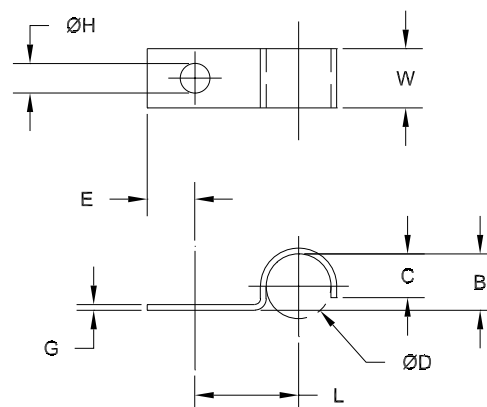
Clip Specifications

Diameter: 1/8" - 1 1/16"
Bolt Size: #10 - 3/8"
Notes: Used to hold pipe, conduit, tubing or wires against a solid surface.

Material Code: A - ASTM A653 CS Type B G90
 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel
 Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow
 C - SAE 301/304 Stainless Steel

Part Number Call Out

F403-008 A Half Clip Plain, Galv, 1/2" Dia, 5/16" Bolt
 Material Code
 Base Part Number



Base Part Number	D	H	L	W	E	B	G	C
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole Center to End	Gap	Material Thickness	Closure
	± .015	± .005	± .031	± .010	± .015	± .015	± .002	± .015
F401-002	0.125	0.218	0.437	0.500	0.250	0.125	0.032	0.093
F402-002	0.125	0.281	0.437	0.500	0.250	0.125	0.032	0.093
F401-003	0.187	0.218	0.437	0.500	0.250	0.156	0.032	0.093
F402-003	0.187	0.281	0.437	0.500	0.250	0.156	0.032	0.093
F401-004	0.250	0.218	0.437	0.500	0.250	0.188	0.032	0.156
F402-004	0.250	0.281	0.437	0.500	0.250	0.188	0.032	0.156
F401-005	0.312	0.218	0.500	0.500	0.250	0.250	0.048	0.188
F402-005	0.312	0.281	0.500	0.500	0.250	0.250	0.048	0.188
F403-005	0.312	0.343	0.500	0.625	0.250	0.250	0.048	0.188
F401-006	0.375	0.218	0.531	0.625	0.312	0.312	0.048	0.218
F402-006	0.375	0.281	0.531	0.625	0.312	0.312	0.048	0.218
F403-006	0.375	0.343	0.687	0.625	0.343	0.312	0.060	0.218
F404-006	0.375	0.406	0.687	0.750	0.343	0.312	0.060	0.218
F401-007	0.437	0.218	0.562	0.625	0.312	0.375	0.048	0.281
F402-007	0.437	0.281	0.562	0.625	0.312	0.375	0.048	0.281
F403-007	0.437	0.343	0.687	0.625	0.375	0.375	0.060	0.281
F404-007	0.437	0.406	0.687	0.750	0.375	0.375	0.060	0.281
F401-008	0.500	0.218	0.625	0.625	0.312	0.437	0.060	0.312
F402-008	0.500	0.281	0.625	0.625	0.312	0.437	0.060	0.312
F403-008	0.500	0.343	0.687	0.625	0.375	0.437	0.060	0.312
F404-008	0.500	0.406	0.687	0.750	0.375	0.437	0.060	0.312
F401-009	0.562	0.218	0.687	0.625	0.312	0.500	0.060	0.343
F402-009	0.562	0.281	0.687	0.625	0.312	0.500	0.060	0.343
F403-009	0.562	0.343	0.750	0.625	0.375	0.500	0.060	0.343
F404-009	0.562	0.406	0.750	0.750	0.375	0.500	0.060	0.343
F401-010	0.625	0.218	0.750	0.625	0.312	0.562	0.060	0.437
F402-010	0.625	0.281	0.750	0.625	0.312	0.562	0.060	0.437
F403-010	0.625	0.343	0.812	0.625	0.375	0.562	0.060	0.437
F404-010	0.625	0.406	0.812	0.750	0.375	0.562	0.060	0.437



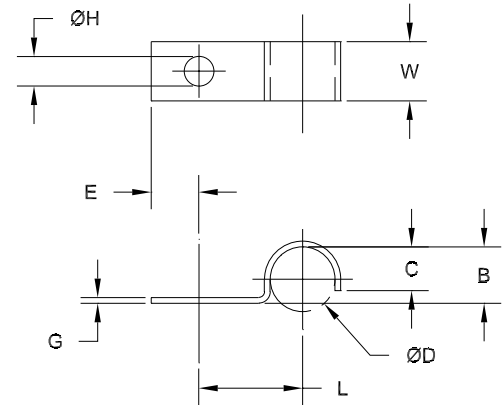
Clip Specifications

Diameter: 1/8" - 1 1/16"
Bolt Size: #10 - 3/8"
Notes: Used to hold pipe, conduit, tubing or wires against a solid surface.

Material Code: A - ASTM A653 CS Type B G90 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow
 C - SAE 301/304 Stainless Steel

Part Number Call Out

F403-008 A Half Clip Plain, Galv, 1/2" Dia, 5/16" Bolt
 Material Code
 Base Part Number



Base Part Number	D	H	L	W	E	B	G	C
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole Center to End	Gap	Material Thickness	Closure
	± .015	± .005	± .031	± .010	± .015	± .015	± .002	± .015
F401-011	0.687	0.218	0.812	0.625	0.312	0.625	0.060	0.406
F402-011	0.687	0.281	0.812	0.625	0.312	0.625	0.060	0.406
F403-011	0.687	0.343	0.875	0.625	0.375	0.625	0.060	0.406
F404-011	0.687	0.406	0.875	0.750	0.375	0.625	0.060	0.406
F401-012	0.750	0.218	0.812	0.625	0.312	0.687	0.060	0.437
F402-012	0.750	0.281	0.812	0.625	0.312	0.687	0.060	0.437
F403-012	0.750	0.343	0.875	0.625	0.375	0.687	0.060	0.437
F404-012	0.750	0.406	0.875	0.750	0.375	0.687	0.060	0.437
F401-013	0.812	0.218	0.875	0.625	0.312	0.750	0.060	0.468
F402-013	0.812	0.281	0.875	0.625	0.312	0.750	0.060	0.468
F403-013	0.812	0.343	0.937	0.625	0.375	0.750	0.060	0.468
F404-013	0.812	0.406	0.937	0.750	0.375	0.750	0.060	0.468
F402-014	0.875	0.281	0.937	0.750	0.375	0.812	0.060	0.531
F403-014	0.875	0.343	0.937	0.750	0.375	0.812	0.060	0.531
F404-014	0.875	0.406	0.937	0.750	0.375	0.812	0.060	0.531
F402-015	0.937	0.281	0.968	0.750	0.437	0.812	0.060	0.593
F403-015	0.937	0.343	0.968	0.750	0.437	0.812	0.060	0.593
F404-015	0.937	0.406	0.968	0.750	0.437	0.812	0.060	0.593
F402-016	1.000	0.281	1.000	0.750	0.437	0.937	0.060	0.625
F403-016	1.000	0.343	1.000	0.750	0.437	0.937	0.060	0.625
F404-016	1.000	0.406	1.000	0.750	0.437	0.937	0.060	0.625
F402-017	1.062	0.281	1.062	0.750	0.437	1.000	0.060	0.687
F403-017	1.062	0.343	1.062	0.750	0.437	1.000	0.060	0.687
F404-017	1.062	0.406	1.062	0.750	0.437	1.000	0.060	0.687



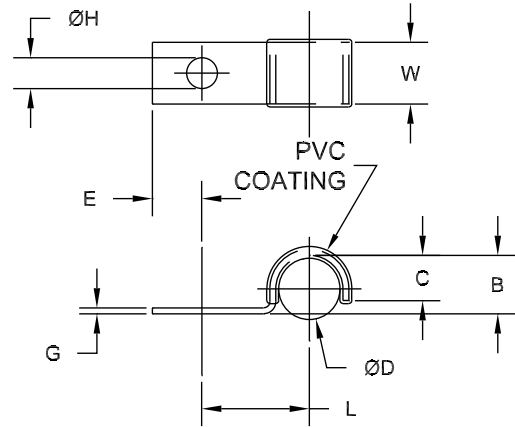
Clip Specifications

Diameter: 3/16" - 1"
Bolt Size: #10 - 3/8"
Coating: Black Vinyl Plastisol Coating Per SAE J200
 0.032" Thick $\pm .015$ "
Notes: Used to hold pipe, conduit, tubing or wires against a solid surface.

Material Code: A - ASTM A653 CS Type B G90
 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel
 Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow

Part Number Call Out

F413-008 A Half Clip Coated, Galv, 1/2" Dia, 5/16" Bolt
 Material Code
 Base Part Number



Base Part Number	D	H	L	W	E	B	G	C
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole Center to End	Gap	Material Thickness	Closure
	$\pm .015$	$\pm .005$	$\pm .031$	$\pm .010$	$\pm .015$	$\pm .015$	$\pm .002$	$\pm .015$
F411-003	0.187	0.218	0.437	0.500	0.250	0.188	0.032	0.156
F412-003	0.187	0.281	0.437	0.500	0.250	0.188	0.032	0.156
F411-004	0.250	0.218	0.500	0.500	0.250	0.250	0.048	0.188
F412-004	0.250	0.281	0.500	0.500	0.250	0.250	0.048	0.188
F413-004	0.250	0.343	0.500	0.625	0.250	0.250	0.048	0.188
F411-005	0.312	0.218	0.531	0.625	0.312	0.312	0.048	0.218
F412-005	0.312	0.281	0.531	0.625	0.312	0.312	0.048	0.218
F413-005	0.312	0.343	0.687	0.625	0.343	0.312	0.060	0.218
F414-005	0.312	0.406	0.687	0.750	0.343	0.312	0.060	0.218
F411-006	0.375	0.218	0.562	0.625	0.312	0.375	0.048	0.281
F412-006	0.375	0.281	0.562	0.625	0.312	0.375	0.048	0.281
F413-006	0.375	0.343	0.687	0.625	0.375	0.375	0.060	0.281
F414-006	0.375	0.406	0.687	0.750	0.375	0.375	0.060	0.281
F411-007	0.437	0.218	0.625	0.625	0.312	0.437	0.060	0.312
F412-007	0.437	0.281	0.625	0.625	0.312	0.437	0.060	0.312
F413-007	0.437	0.343	0.687	0.625	0.375	0.437	0.060	0.312
F414-007	0.437	0.406	0.687	0.750	0.375	0.437	0.060	0.312
F411-008	0.500	0.218	0.687	0.625	0.312	0.500	0.060	0.343
F412-008	0.500	0.281	0.687	0.625	0.312	0.500	0.060	0.343
F413-008	0.500	0.343	0.750	0.625	0.375	0.500	0.060	0.343
F414-008	0.500	0.406	0.750	0.750	0.375	0.500	0.060	0.343
F411-009	0.562	0.218	0.750	0.625	0.312	0.562	0.060	0.437
F412-009	0.562	0.281	0.750	0.625	0.312	0.562	0.060	0.437
F413-009	0.562	0.343	0.812	0.625	0.375	0.562	0.060	0.437
F414-009	0.562	0.406	0.812	0.750	0.375	0.562	0.060	0.437
F411-010	0.625	0.218	0.812	0.625	0.312	0.625	0.060	0.406
F412-010	0.625	0.281	0.812	0.625	0.312	0.625	0.060	0.406
F413-010	0.625	0.343	0.875	0.625	0.375	0.625	0.060	0.406
F414-010	0.625	0.406	0.875	0.750	0.375	0.625	0.060	0.406



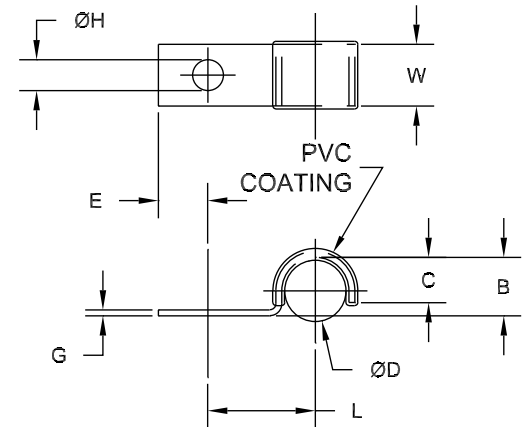
Clip Specifications

Diameter: 3/16" - 1"
Bolt Size: #10 - 3/8"
Coating: Black Vinyl Plastisol Coating Per SAE J200
 0.032" Thick $\pm .015$ "
Notes: Used to hold pipe, conduit, tubing or wires against a solid surface.

Material Code: A - ASTM A653 CS Type B G90
 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel
 Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow

Part Number Call Out

F413-008 A Half Clip Coated, Galv, 1/2" Dia, 5/16" Bolt
 Material Code
 Base Part Number



Base Part Number	D	H	L	W	E	B	G	C
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole Center to End	Gap	Material Thickness	Closure
	$\pm .015$	$\pm .005$	$\pm .031$	$\pm .010$	$\pm .015$	$\pm .015$	$\pm .002$	$\pm .015$
F411-011	0.687	0.218	0.812	0.625	0.312	0.687	0.060	0.437
F412-011	0.687	0.281	0.812	0.625	0.312	0.687	0.060	0.437
F413-011	0.687	0.343	0.875	0.625	0.375	0.687	0.060	0.437
F414-011	0.687	0.406	0.875	0.750	0.375	0.687	0.060	0.437
F411-012	0.750	0.218	0.875	0.625	0.312	0.750	0.060	0.468
F412-012	0.750	0.281	0.875	0.625	0.312	0.750	0.060	0.468
F413-012	0.750	0.343	0.937	0.625	0.375	0.750	0.060	0.468
F414-012	0.750	0.406	0.937	0.750	0.375	0.750	0.060	0.468
F412-013	0.812	0.281	0.937	0.750	0.375	0.812	0.060	0.531
F413-013	0.812	0.343	0.937	0.750	0.375	0.812	0.060	0.531
F414-013	0.812	0.406	0.937	0.750	0.375	0.812	0.060	0.531
F412-014	0.875	0.281	0.968	0.750	0.437	0.812	0.060	0.593
F413-014	0.875	0.343	0.968	0.750	0.437	0.812	0.060	0.593
F414-014	0.875	0.406	0.968	0.750	0.437	0.812	0.060	0.593
F412-015	0.937	0.281	1.000	0.750	0.437	0.937	0.060	0.625
F413-015	0.937	0.343	1.000	0.750	0.437	0.937	0.060	0.625
F414-015	0.937	0.406	1.000	0.750	0.437	0.937	0.060	0.625
F412-016	1.000	0.281	1.062	0.750	0.437	1.000	0.060	0.687
F413-016	1.000	0.343	1.062	0.750	0.437	1.000	0.060	0.687
F414-016	1.000	0.406	1.062	0.750	0.437	1.000	0.060	0.687



420 SERIES DOUBLE TUBE CLAMP — PLAIN

Clip Specifications

Diameter: 3/16" - 1"

Bolt Size: #10 - 1/2"

Position: Furnished Open

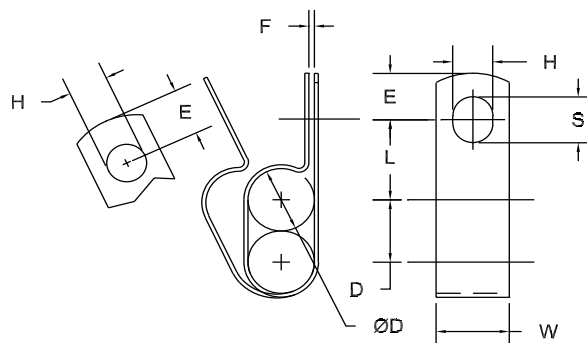
Notes: A clip that is designed to be slipped over two tubes or wires of the same diameter and closed with a bolt at assembly, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code: A - ASTM A653 CS Type B G90
Galvanized Steel

B - ASTM A1008 CS Type B Low Carbon Steel

Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow

C - SAE 301/304 Stainless Steel



Part Number Call Out

F423-008 A Clamp Double Tube Plain, Galv, 1/2" Dia, 5/16" Bolt

Material Code

Base Part Number

Different sizes, materials, and/or finishes not shown can be manufactured to meet your specifications

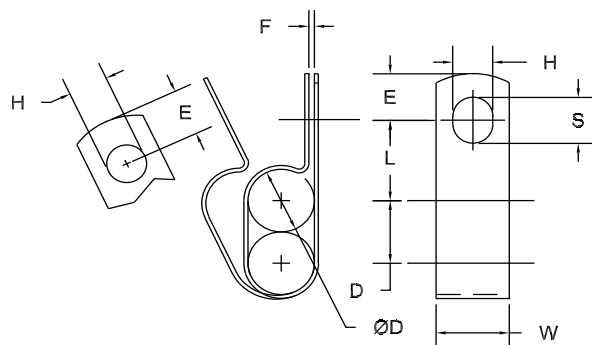
Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Gap	Material Thickness	Slot Length
	± .015	± .005	± .031	± .010	± .015	± .032	± .002	± .020
F421-003	0.187	0.203	0.437	0.500	0.218	0.031	0.032	0.203
F422-003	0.187	0.281	0.468	0.500	0.312	0.031	0.032	0.375
F423-003	0.187	0.343	0.531	0.625	0.375	0.031	0.032	0.437
F424-003	0.187	0.406	0.593	0.750	0.437	0.031	0.032	0.500
F421-004	0.250	0.203	0.468	0.500	0.218	0.031	0.032	0.203
F422-004	0.250	0.281	0.500	0.500	0.312	0.031	0.032	0.375
F423-004	0.250	0.343	0.562	0.625	0.375	0.031	0.032	0.437
F424-004	0.250	0.406	0.625	0.750	0.437	0.031	0.032	0.500
F422-005	0.312	0.281	0.531	0.500	0.312	0.031	0.032	0.375
F423-005	0.312	0.343	0.593	0.625	0.375	0.031	0.032	0.437
F424-005	0.312	0.406	0.656	0.750	0.437	0.031	0.032	0.500
F422-006	0.375	0.281	0.562	0.500	0.312	0.062	0.032	0.375
F423-006	0.375	0.343	0.625	0.625	0.375	0.062	0.032	0.437
F424-006	0.375	0.406	0.687	0.750	0.437	0.062	0.032	0.500
F425-006	0.375	0.468	0.750	0.875	0.500	0.062	0.032	0.562
F425-006	0.375	0.531	0.812	1.000	0.562	0.062	0.032	0.625
F422-007	0.437	0.281	0.593	0.500	0.312	0.062	0.032	0.375
F423-007	0.437	0.343	0.656	0.625	0.375	0.062	0.032	0.437
F424-007	0.437	0.406	0.718	0.750	0.437	0.062	0.032	0.500
F425-007	0.437	0.468	0.781	0.875	0.500	0.062	0.032	0.562
F426-007	0.437	0.531	0.843	1.000	0.562	0.062	0.048	0.625
F422-008	0.500	0.281	0.625	0.500	0.312	0.062	0.048	0.375
F423-008	0.500	0.343	0.687	0.625	0.375	0.062	0.048	0.437
F424-008	0.500	0.406	0.750	0.750	0.437	0.062	0.048	0.500
F425-008	0.500	0.468	0.812	0.875	0.500	0.062	0.048	0.562
F426-008	0.500	0.531	0.875	1.000	0.562	0.062	0.048	0.625
F422-009	0.562	0.281	0.656	0.500	0.312	0.062	0.048	0.375
F423-009	0.562	0.343	0.718	0.625	0.375	0.062	0.048	0.437
F424-009	0.562	0.406	0.781	0.750	0.437	0.062	0.048	0.500
F425-009	0.562	0.468	0.843	0.875	0.500	0.062	0.048	0.562



Clip Specifications

Diameter: 3/16" - 1"
Bolt Size: #10 - 1/2"
Position: Furnished Open
Notes: A clip that is designed to be slipped over two tubes or wires of the same diameter and closed with a bolt at assembly, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code: A - ASTM A653 CS Type B G90
 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel
 Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow
 C - SAE 301/304 Stainless Steel



Part Number Call Out

F423-008 A Clamp Double Tube Plain, Galv, 1/2" Dia, 5/16" Bolt
 Material Code
 Base Part Number

Different sizes, materials, and/or finishes not shown can be manufactured to meet your specifications

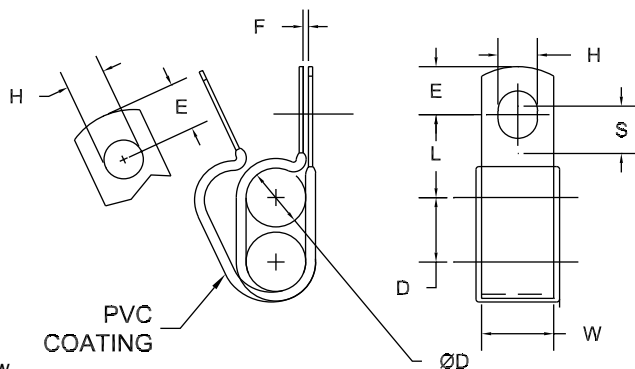
Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Gap	Material Thickness	Slot Length
	± .015	± .005	± .031	± .010	± .015	± .032	± .002	± .020
F426-009	0.562	0.531	0.906	1.000	0.562	0.062	0.048	0.625
F422-010	0.625	0.281	0.718	0.500	0.312	0.062	0.048	0.375
F423-010	0.625	0.343	0.750	0.625	0.375	0.062	0.048	0.437
F424-010	0.625	0.406	0.812	0.750	0.437	0.062	0.048	0.500
F425-010	0.625	0.468	0.875	0.875	0.500	0.062	0.048	0.562
F426-010	0.625	0.531	0.937	1.000	0.562	0.062	0.048	0.625
F423-011	0.687	0.343	0.781	0.625	0.375	0.062	0.048	0.437
F424-011	0.687	0.406	0.843	0.750	0.437	0.062	0.048	0.500
F425-011	0.687	0.468	0.906	0.875	0.500	0.062	0.048	0.562
F426-011	0.687	0.531	0.968	1.000	0.562	0.062	0.048	0.625
F423-012	0.750	0.343	0.812	0.625	0.375	0.062	0.048	0.437
F424-012	0.750	0.406	0.875	0.750	0.437	0.062	0.048	0.500
F425-012	0.750	0.468	0.937	0.875	0.500	0.062	0.048	0.562
F426-012	0.750	0.531	1.000	1.000	0.562	0.062	0.048	0.625
F423-013	0.812	0.343	0.843	0.625	0.375	0.062	0.060	0.437
F424-013	0.812	0.406	0.906	0.750	0.437	0.062	0.060	0.500
F425-013	0.812	0.468	0.968	0.875	0.500	0.062	0.060	0.562
F426-013	0.812	0.531	1.031	1.000	0.562	0.062	0.060	0.625
F423-014	0.875	0.343	0.875	0.625	0.375	0.062	0.060	0.437
F424-014	0.875	0.406	0.937	0.750	0.437	0.062	0.060	0.500
F425-014	0.875	0.468	1.000	0.875	0.500	0.062	0.060	0.562
F426-014	0.875	0.531	1.062	1.000	0.562	0.062	0.060	0.625
F423-015	0.937	0.343	0.906	0.625	0.375	0.062	0.060	0.437
F424-015	0.937	0.406	0.968	0.750	0.437	0.062	0.060	0.500
F425-015	0.937	0.468	1.031	0.875	0.500	0.062	0.060	0.562
F426-015	0.937	0.531	1.093	1.000	0.562	0.062	0.060	0.625
F423-016	1.000	0.343	0.937	0.625	0.375	0.062	0.060	0.437
F424-016	1.000	0.406	1.000	0.750	0.437	0.062	0.060	0.500
F425-016	1.000	0.468	1.062	0.875	0.500	0.062	0.060	0.562
F426-016	1.000	0.531	1.125	1.000	0.562	0.062	0.060	0.625



Clip Specifications

Diameter: 3/16" - 1"
Bolt Size: #10 - 1/2"
Position: Furnished Open
Coating: Black Vinyl Plastisol Coating Per SAE J200
 0.032" Thick $\pm .015$ "
Notes: A clip that is designed to be slipped over two tubes or wires of the same diameter and closed with a bolt at assembly, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code: A - ASTM A653 CS Type B G90
 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel
 Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow



Part Number Call Out

F433-008 A Clamp Double Tube Coated, Galv, 1/2" Dia, 5/16" Bolt
 Material Code
 Base Part Number

Different sizes, materials, and/or finishes not shown can be manufactured to meet your specifications

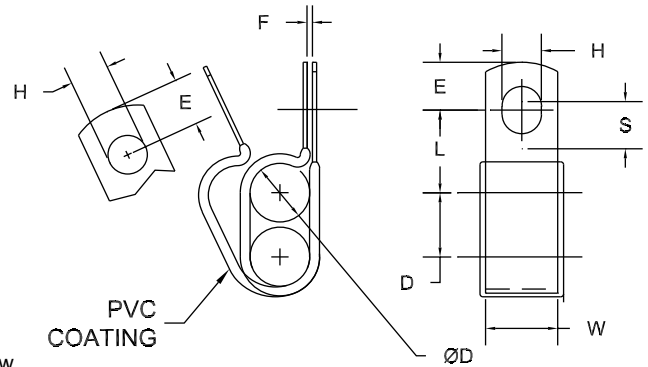
Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Gap	Material Thickness	Slot Length
	$\pm .015$	$\pm .005$	$\pm .031$	$\pm .010$	$\pm .015$	$\pm .032$	$\pm .002$	$\pm .020$
F431-003	0.187	0.203	0.437	0.500	0.218	0.031	0.032	0.203
F432-003	0.187	0.281	0.468	0.500	0.312	0.031	0.032	0.375
F433-003	0.187	0.343	0.531	0.625	0.375	0.031	0.032	0.437
F434-003	0.187	0.406	0.593	0.750	0.437	0.031	0.032	0.500
F431-004	0.250	0.203	0.468	0.500	0.218	0.031	0.032	0.203
F432-004	0.250	0.281	0.500	0.500	0.312	0.031	0.032	0.375
F433-004	0.250	0.343	0.562	0.625	0.375	0.031	0.032	0.437
F434-004	0.250	0.406	0.625	0.750	0.437	0.031	0.032	0.500
F432-005	0.312	0.281	0.531	0.500	0.312	0.031	0.032	0.375
F433-005	0.312	0.343	0.593	0.625	0.375	0.031	0.032	0.437
F434-005	0.312	0.406	0.656	0.750	0.437	0.031	0.032	0.500
F432-006	0.375	0.281	0.562	0.500	0.312	0.062	0.032	0.375
F433-006	0.375	0.343	0.625	0.625	0.375	0.062	0.032	0.437
F434-006	0.375	0.406	0.687	0.750	0.437	0.062	0.032	0.500
F435-006	0.375	0.468	0.750	0.875	0.500	0.062	0.032	0.562
F436-006	0.375	0.531	0.812	1.000	0.562	0.062	0.032	0.625
F432-007	0.437	0.281	0.593	0.500	0.312	0.062	0.032	0.375
F433-007	0.437	0.343	0.656	0.625	0.375	0.062	0.032	0.437
F434-007	0.437	0.406	0.718	0.750	0.437	0.062	0.032	0.500
F435-007	0.437	0.468	0.781	0.875	0.500	0.062	0.032	0.562
F436-007	0.437	0.531	0.843	1.000	0.562	0.062	0.048	0.625
F432-008	0.500	0.281	0.625	0.500	0.312	0.062	0.048	0.375
F433-008	0.500	0.343	0.687	0.625	0.375	0.062	0.048	0.437
F434-008	0.500	0.406	0.750	0.750	0.437	0.062	0.048	0.500
F435-008	0.500	0.468	0.812	0.875	0.500	0.062	0.048	0.562
F436-008	0.500	0.531	0.875	1.000	0.562	0.062	0.048	0.625
F432-009	0.562	0.281	0.656	0.500	0.312	0.062	0.048	0.375
F433-009	0.562	0.343	0.718	0.625	0.375	0.062	0.048	0.437
F434-009	0.562	0.406	0.781	0.750	0.437	0.062	0.048	0.500
F435-009	0.562	0.468	0.843	0.875	0.500	0.062	0.048	0.562



Clip Specifications

Diameter: 3/16" - 1"
Bolt Size: #10 - 1/2"
Position: Furnished Open
Coating: Black Vinyl Plastisol Coating Per SAE J200
 0.032" Thick $\pm .015"$
Notes: A clip that is designed to be slipped over two tubes or wires of the same diameter and closed with a bolt at assembly, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code: A - ASTM A653 CS Type B G90
 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel
 Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow



Part Number Call Out

F433-008 A Clamp Double Tube Coated, Galv, 1/2" Dia, 5/16" Bolt
 Material Code
 Base Part Number

Different sizes, materials, and/or finishes not shown can be manufactured to meet your specifications

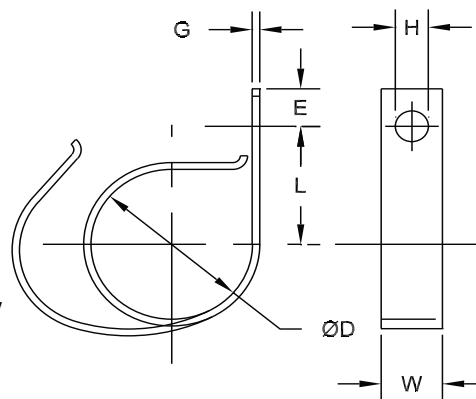
Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Gap	Material Thickness	Slot Length
	$\pm .015$	$\pm .005$	$\pm .031$	$\pm .010$	$\pm .015$	$\pm .032$	$\pm .002$	$\pm .020$
F436-009	0.562	0.531	0.906	1.000	0.562	0.062	0.048	0.625
F432-010	0.625	0.281	0.718	0.500	0.312	0.062	0.048	0.375
F433-010	0.625	0.343	0.750	0.625	0.375	0.062	0.048	0.437
F434-010	0.625	0.406	0.812	0.750	0.437	0.062	0.048	0.500
F435-010	0.625	0.468	0.875	0.875	0.500	0.062	0.048	0.562
F436-010	0.625	0.531	0.937	1.000	0.562	0.062	0.048	0.625
F433-011	0.687	0.343	0.781	0.625	0.375	0.062	0.048	0.437
F434-011	0.687	0.406	0.843	0.750	0.437	0.062	0.048	0.500
F435-011	0.687	0.468	0.906	0.875	0.500	0.062	0.048	0.562
F436-011	0.687	0.531	0.968	1.000	0.562	0.062	0.048	0.625
F433-012	0.750	0.343	0.812	0.625	0.375	0.062	0.048	0.437
F434-012	0.750	0.406	0.875	0.750	0.437	0.062	0.048	0.500
F435-012	0.750	0.468	0.937	0.875	0.500	0.062	0.048	0.562
F436-012	0.750	0.531	1.000	1.000	0.562	0.062	0.048	0.625
F433-013	0.812	0.343	0.843	0.625	0.375	0.062	0.060	0.437
F434-013	0.812	0.406	0.906	0.750	0.437	0.062	0.060	0.500
F435-013	0.812	0.468	0.968	0.875	0.500	0.062	0.060	0.562
F436-013	0.812	0.531	1.031	1.000	0.562	0.062	0.060	0.625
F433-014	0.875	0.343	0.875	0.625	0.375	0.062	0.060	0.437
F434-014	0.875	0.406	0.937	0.750	0.437	0.062	0.060	0.500
F435-014	0.875	0.468	1.000	0.875	0.500	0.062	0.060	0.562
F436-014	0.875	0.531	1.062	1.000	0.562	0.062	0.060	0.625
F433-015	0.937	0.343	0.906	0.625	0.375	0.062	0.060	0.437
F434-015	0.937	0.406	0.968	0.750	0.437	0.062	0.060	0.500
F435-015	0.937	0.468	1.031	0.875	0.500	0.062	0.060	0.562
F436-015	0.937	0.531	1.093	1.000	0.562	0.062	0.060	0.625
F433-016	1.000	0.343	0.937	0.625	0.375	0.062	0.060	0.437
F434-016	1.000	0.406	1.000	0.750	0.437	0.062	0.060	0.500
F435-016	1.000	0.468	1.062	0.875	0.500	0.062	0.060	0.562
F436-016	1.000	0.531	1.125	1.000	0.562	0.062	0.060	0.625



Clip Specifications

Diameter: 1/8" - 2 1/16"
Bolt Size: #10 - 1/2"
Position: Furnished Open
Notes: Once this clip is mounted, tubing and/or wiring can be added at a later time, a developed shape for ease of closing with pliers or screwdriver.

Material Code: A - ASTM A653 CS Type B G90
 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel
 Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow
 C - SAE 301/304 Stainless Steel



Part Number Call Out

F443-008 A J Clip Plain, Galv, 1/2" Dia, 5/16" Bolt

Material Code
 Base Part Number

Different sizes, materials, and/or finishes not shown can be manufactured to meet your specifications

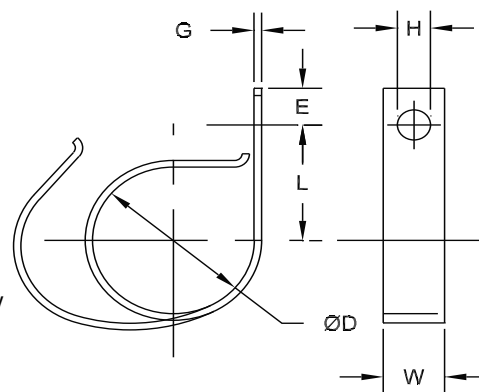
Base Part Number	D	H	L	W	E	G
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Material Thickness
	± .015	± .005	± .031	± .010	± .015	± .002
F441-002	0.125	0.203	0.625	0.500	0.218	0.025
F442-002	0.125	0.281	0.656	0.500	0.250	0.025
F443-002	0.125	0.343	0.687	0.625	0.312	0.025
F444-002	0.125	0.406	0.718	0.625	0.375	0.025
F441-003	0.187	0.203	0.687	0.500	0.218	0.025
F442-003	0.187	0.281	0.718	0.500	0.250	0.025
F443-003	0.187	0.343	0.750	0.625	0.312	0.025
F444-003	0.187	0.406	0.781	0.625	0.375	0.025
F441-004	0.250	0.203	0.750	0.500	0.218	0.032
F442-004	0.250	0.281	0.781	0.500	0.250	0.032
F443-004	0.250	0.343	0.812	0.625	0.312	0.032
F444-004	0.250	0.406	0.843	0.750	0.375	0.032
F441-005	0.312	0.203	0.812	0.500	0.218	0.032
F442-005	0.312	0.281	0.843	0.500	0.250	0.032
F443-005	0.312	0.343	0.875	0.625	0.312	0.032
F444-005	0.312	0.406	0.906	0.750	0.375	0.032
F441-006	0.375	0.203	0.875	0.500	0.218	0.032
F442-006	0.375	0.281	0.906	0.500	0.250	0.032
F443-006	0.375	0.343	0.937	0.625	0.312	0.032
F444-006	0.375	0.406	0.968	0.750	0.375	0.032
F442-007	0.437	0.281	0.937	0.500	0.250	0.032
F443-007	0.437	0.343	0.963	0.625	0.312	0.032
F444-007	0.437	0.406	1.000	0.750	0.375	0.032
F442-008	0.500	0.281	1.000	0.500	0.250	0.032
F443-008	0.500	0.343	1.031	0.625	0.312	0.032
F444-008	0.500	0.406	1.062	0.750	0.375	0.032
F442-009	0.562	0.281	1.062	0.500	0.250	0.032
F443-009	0.562	0.343	1.093	0.625	0.312	0.032
F444-009	0.562	0.406	1.125	0.750	0.375	0.032



Clip Specifications

Diameter: 1/8" - 2 1/16"
Bolt Size: #10 - 1/2"
Position: Furnished Open
Notes: Once this clip is mounted, tubing and/or wiring can be added at a later time, a developed shape for ease of closing with pliers or screwdriver.

Material Code: A - ASTM A653 CS Type B G90
 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel
 Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow
 C - SAE 301/304 Stainless Steel



Part Number Call Out

F443-008 A J Clip Plain, Galv, 1/2" Dia, 5/16" Bolt

Material Code
 Base Part Number

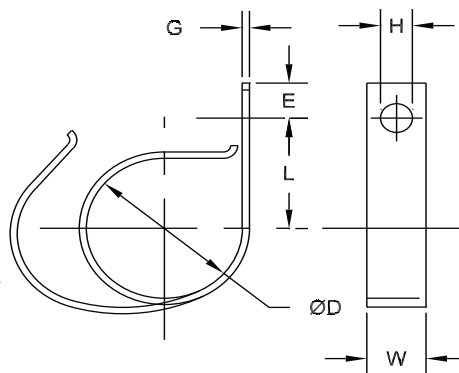
Different sizes, materials, and/or finishes not shown can be manufactured to meet your specifications

Base Part Number	D	H	L	W	E	G
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Material Thickness
	± .015	± .005	± .031	± .010	± .015	± .002
F442-010	0.625	0.281	1.125	0.500	0.250	0.048
F443-010	0.625	0.343	1.156	0.625	0.312	0.048
F444-010	0.625	0.406	1.187	0.750	0.375	0.048
F442-011	0.687	0.281	1.187	0.500	0.250	0.048
F443-011	0.687	0.343	1.218	0.625	0.312	0.048
F444-011	0.687	0.406	1.250	0.750	0.375	0.048
F442-012	0.750	0.281	1.250	0.500	0.250	0.048
F443-012	0.750	0.343	1.281	0.625	0.312	0.048
F444-012	0.750	0.406	1.312	0.750	0.375	0.048
F442-013	0.812	0.281	1.250	0.500	0.250	0.048
F443-013	0.812	0.343	1.281	0.625	0.312	0.048
F444-013	0.812	0.406	1.312	0.750	0.375	0.048
F442-014	0.875	0.281	1.312	0.500	0.250	0.048
F443-014	0.875	0.343	1.343	0.625	0.312	0.048
F444-014	0.875	0.406	1.375	0.750	0.375	0.048
F442-015	0.937	0.281	1.375	0.500	0.250	0.048
F443-015	0.937	0.343	1.406	0.625	0.312	0.048
F444-015	0.937	0.406	1.437	0.750	0.375	0.048
F442-016	1.000	0.281	1.437	0.500	0.250	0.048
F443-016	1.000	0.343	1.468	0.625	0.312	0.048
F444-016	1.000	0.406	1.500	0.750	0.375	0.048
F442-017	1.062	0.281	1.500	0.500	0.250	0.048
F443-017	1.062	0.343	1.531	0.625	0.312	0.048
F444-017	1.062	0.406	1.562	0.750	0.375	0.048
F442-018	1.125	0.281	1.562	0.500	0.250	0.048
F443-018	1.125	0.343	1.593	0.625	0.312	0.048
F444-018	1.125	0.406	1.625	0.750	0.375	0.048
F442-019	1.187	0.281	1.625	0.500	0.250	0.048
F443-019	1.187	0.343	1.656	0.625	0.312	0.048
F444-019	1.187	0.406	1.687	0.750	0.375	0.048



Clip Specifications

Diameter: 1/8" - 2 1/16"
Bolt Size: #10 - 1/2"
Position: Furnished Open
Notes: Once this clip is mounted, tubing and/or wiring can be added at a later time, a developed shape for ease of closing with pliers or screwdriver.
Material Code: A - ASTM A653 CS Type B G90 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow
 C - SAE 301/304 Stainless Steel



Part Number Call Out

F443-008 A J Clip Plain, Galv, 1/2" Dia, 5/16" Bolt
 Material Code
 Base Part Number

Different sizes, materials, and/or finishes not shown can be manufactured to meet your specifications

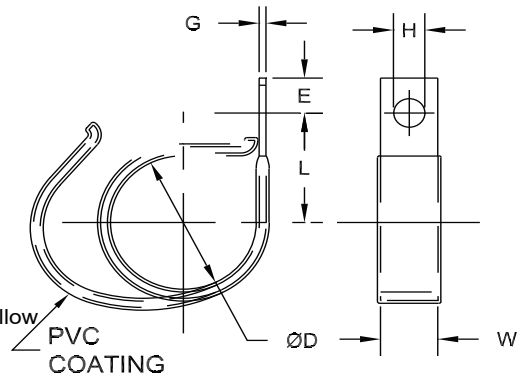
Base Part Number	D	H	L	W	E	G
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Material Thickness
	± .015	± .005	± .031	± .010	± .015	± .002
F442-020	1.250	0.281	1.687	0.500	0.250	0.048
F443-020	1.250	0.343	1.718	0.625	0.312	0.048
F444-020	1.250	0.406	1.750	0.750	0.375	0.048
F442-021	1.312	0.281	1.750	0.500	0.250	0.048
F443-021	1.312	0.343	1.781	0.625	0.312	0.048
F444-021	1.312	0.406	1.812	0.750	0.375	0.048
F442-022	1.375	0.281	1.812	0.500	0.250	0.048
F443-022	1.375	0.343	1.843	0.625	0.312	0.048
F444-022	1.375	0.406	1.875	0.750	0.375	0.048
F442-023	1.437	0.281	1.875	0.500	0.250	0.048
F443-023	1.437	0.343	1.906	0.625	0.312	0.048
F444-023	1.437	0.406	1.937	0.750	0.375	0.048
F442-025	1.562	0.281	2.000	0.500	0.250	0.048
F443-025	1.562	0.343	2.031	0.625	0.312	0.048
F444-025	1.562	0.406	2.062	0.750	0.375	0.048
F442-027	1.687	0.281	2.125	0.500	0.250	0.048
F443-027	1.687	0.343	2.156	0.625	0.312	0.048
F444-027	1.687	0.406	2.187	0.750	0.375	0.048
F442-029	1.812	0.281	2.250	0.500	0.250	0.048
F443-029	1.812	0.343	2.281	0.625	0.312	0.048
F444-029	1.812	0.406	2.312	0.750	0.375	0.048
F442-033	2.062	0.281	2.500	0.500	0.250	0.048
F443-033	2.062	0.343	2.531	0.625	0.312	0.048
F444-033	2.062	0.406	2.562	0.750	0.375	0.048



Clip Specifications

Diameter: 1/8" - 2"
Bolt Size: #10 - 1/2"
Position: Furnished Open
Coating: Black Vinyl Plastisol Coating Per SAE J200
 0.032" Thick $\pm .015$ "
Notes: Once this clip is mounted, tubing and/or wiring can be added at a later time, a developed shape for ease of closing with pliers or screwdriver.

Material Code: A - ASTM A653 CS Type B G90
 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel
 Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow



Part Number Call Out

F453-008 A J-Clip Coated, Galv, 1/2" Dia, 5/16" Bolt
 Material Code
 Base Part Number

Different sizes, materials, and/or finishes not shown can be manufactured to meet your specifications

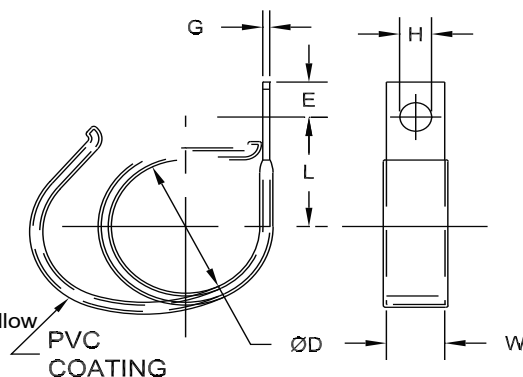
Base Part Number	D	H	L	W	E	G
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Material Thickness
	$\pm .015$	$\pm .005$	$\pm .031$	$\pm .010$	$\pm .015$	$\pm .002$
F451-002	0.125	0.203	0.687	0.500	0.218	0.025
F452-002	0.125	0.281	0.718	0.500	0.250	0.025
F453-002	0.125	0.343	0.750	0.625	0.312	0.025
F454-002	0.125	0.406	0.781	0.625	0.375	0.025
F451-003	0.187	0.203	0.750	0.500	0.218	0.032
F452-003	0.187	0.281	0.781	0.500	0.250	0.032
F453-003	0.187	0.343	0.812	0.625	0.312	0.032
F454-003	0.187	0.406	0.843	0.750	0.375	0.032
F451-004	0.250	0.203	0.812	0.500	0.218	0.032
F452-004	0.250	0.281	0.843	0.500	0.250	0.032
F453-004	0.250	0.343	0.875	0.625	0.312	0.032
F454-004	0.250	0.406	0.906	0.750	0.375	0.032
F451-005	0.312	0.203	0.875	0.500	0.218	0.032
F452-005	0.312	0.281	0.906	0.500	0.250	0.032
F453-005	0.312	0.343	0.937	0.625	0.312	0.032
F454-005	0.312	0.406	0.968	0.750	0.375	0.032
F452-006	0.375	0.281	0.937	0.500	0.250	0.032
F453-006	0.375	0.343	0.963	0.625	0.312	0.032
F454-006	0.375	0.406	1.000	0.750	0.375	0.032
F452-007	0.437	0.281	1.000	0.500	0.250	0.032
F453-007	0.437	0.343	1.031	0.625	0.312	0.032
F454-007	0.437	0.406	1.062	0.750	0.375	0.032
F452-008	0.500	0.281	1.062	0.500	0.250	0.032
F453-008	0.500	0.343	1.093	0.625	0.312	0.032
F454-008	0.500	0.406	1.125	0.750	0.375	0.032
F452-009	0.562	0.281	1.125	0.500	0.250	0.048
F453-009	0.562	0.343	1.156	0.625	0.312	0.048
F454-009	0.562	0.406	1.187	0.750	0.375	0.048



Clip Specifications

Diameter: 1/8" - 2"
Bolt Size: #10 - 1/2"
Position: Furnished Open
Coating: Black Vinyl Plastisol Coating Per SAE J200
 0.032" Thick $\pm .015$ "
Notes: Once this clip is mounted, tubing and/or wiring can be added at a later time, a developed shape for ease of closing with pliers or screwdriver.

Material Code: A - ASTM A653 CS Type B G90
 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel
 Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow



Part Number Call Out

F453-008 A J-Clip Coated, Galv, 1/2" Dia, 5/16" Bolt
 Material Code
 Base Part Number

Different sizes, materials, and/or finishes not shown can be manufactured to meet your specifications

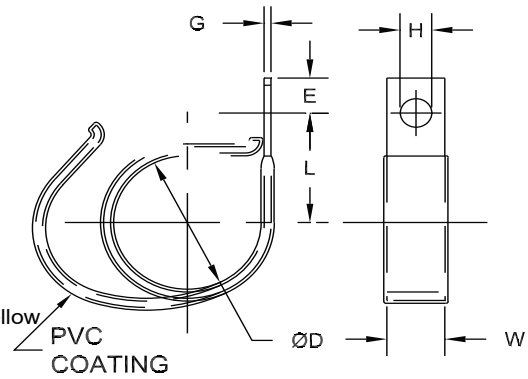
Base Part Number	D	H	L	W	E	G
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Material Thickness
	$\pm .015$	$\pm .005$	$\pm .031$	$\pm .010$	$\pm .015$	$\pm .002$
F452-010	0.625	0.281	1.187	0.500	0.250	0.048
F453-010	0.625	0.343	1.218	0.625	0.312	0.048
F454-010	0.625	0.406	1.250	0.750	0.375	0.048
F452-011	0.687	0.281	1.250	0.500	0.250	0.048
F453-011	0.687	0.343	1.281	0.625	0.312	0.048
F454-011	0.687	0.406	1.312	0.750	0.375	0.048
F452-012	0.750	0.281	1.250	0.500	0.250	0.048
F453-012	0.750	0.343	1.281	0.625	0.312	0.048
F454-012	0.750	0.406	1.312	0.750	0.375	0.048
F452-013	0.812	0.281	1.312	0.500	0.250	0.048
F453-013	0.812	0.343	1.343	0.625	0.312	0.048
F454-013	0.812	0.406	1.375	0.750	0.375	0.048
F452-014	0.875	0.281	1.375	0.500	0.250	0.048
F453-014	0.875	0.343	1.406	0.625	0.312	0.048
F454-014	0.875	0.406	1.437	0.750	0.375	0.048
F452-015	0.937	0.281	1.437	0.500	0.250	0.048
F453-015	0.937	0.343	1.468	0.625	0.312	0.048
F454-015	0.937	0.406	1.500	0.750	0.375	0.048
F452-016	1.000	0.281	1.500	0.500	0.250	0.048
F453-016	1.000	0.343	1.531	0.625	0.312	0.048
F454-016	1.000	0.406	1.562	0.750	0.375	0.048
F452-017	1.062	0.281	1.562	0.500	0.250	0.048
F453-017	1.062	0.343	1.593	0.625	0.312	0.048
F454-017	1.062	0.406	1.625	0.750	0.375	0.048
F452-018	1.125	0.281	1.625	0.500	0.250	0.048
F453-018	1.125	0.343	1.656	0.625	0.312	0.048
F454-018	1.125	0.406	1.687	0.750	0.375	0.048
F452-019	1.187	0.281	1.687	0.500	0.250	0.048
F453-019	1.187	0.343	1.718	0.625	0.312	0.048
F454-019	1.187	0.406	1.750	0.750	0.375	0.048



Clip Specifications

Diameter: 1/8" - 2"
Bolt Size: #10 - 1/2"
Position: Furnished Open
Coating: Black Vinyl Plastisol Coating Per SAE J200
 0.032" Thick $\pm .015$ "
Notes: Once this clip is mounted, tubing and/or wiring can be added at a later time, a developed shape for ease of closing with pliers or screwdriver.

Material Code: A - ASTM A653 CS Type B G90
 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel
 Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow



Part Number Call Out

F453-008 A J-Clip Coated, Galv, 1/2" Dia, 5/16" Bolt
 Material Code
 Base Part Number

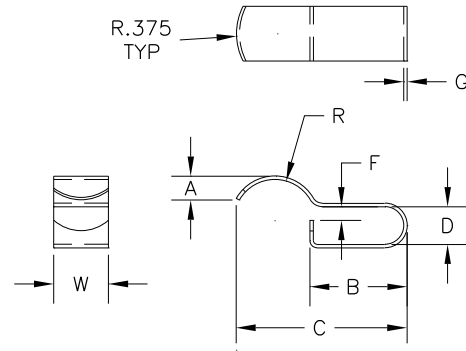
Different sizes, materials, and/or finishes not shown can be manufactured to meet your specifications

Base Part Number	D	H	L	W	E	G
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Material Thickness
	$\pm .015$	$\pm .005$	$\pm .031$	$\pm .010$	$\pm .015$	$\pm .002$
F452-020	1.250	0.281	1.750	0.500	0.250	0.048
F453-020	1.250	0.343	1.781	0.625	0.312	0.048
F454-020	1.250	0.406	1.812	0.750	0.375	0.048
F452-021	1.312	0.281	1.812	0.500	0.250	0.048
F453-021	1.312	0.343	1.843	0.625	0.312	0.048
F454-021	1.312	0.406	1.875	0.750	0.375	0.048
F452-022	1.375	0.281	1.875	0.500	0.250	0.048
F453-022	1.375	0.343	1.906	0.625	0.312	0.048
F454-022	1.375	0.406	1.937	0.750	0.375	0.048
F452-024	1.500	0.281	2.000	0.500	0.250	0.048
F453-024	1.500	0.343	2.031	0.625	0.312	0.048
F454-024	1.500	0.406	2.062	0.750	0.375	0.048
F452-026	1.625	0.281	2.125	0.500	0.250	0.048
F453-026	1.625	0.343	2.156	0.625	0.312	0.048
F454-026	1.625	0.406	2.187	0.750	0.375	0.048
F452-028	1.750	0.281	2.250	0.500	0.250	0.048
F453-028	1.750	0.343	2.281	0.625	0.312	0.048
F454-028	1.750	0.406	2.312	0.750	0.375	0.048
F452-032	2.000	0.281	2.500	0.500	0.250	0.048
F453-032	2.000	0.343	2.531	0.625	0.312	0.048
F454-032	2.000	0.406	2.562	0.750	0.375	0.048



Clip Specifications

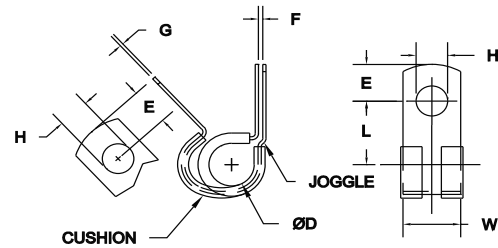
Diameter: 3/16" - 3/4"
Mounting Thickness: 0.074" - 0.312"
Notes: Frame mounting clips are designed to hold wiring or tubing to structural shapes on truck or trailer frames.
Material: SAE 1050 Annealed Spring Steel
Heat Treated Hrc 40-50
Finish: Phosphate and Black Paint 96 Hrs Salt Spray



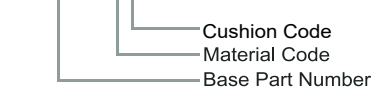
Base Part Number	R	A	B	C	D	F	G	W	Use on Metal Thickness	
	± .031	± .031	± .031	± .062	± .031	± .020	± .002	± .010	Minimum	Maximum
F460-002	0.250	0.187	0.703	1.062	0.156	0.046	0.032	0.500	0.074	0.156
F460-003	0.375	0.250	0.937	1.625	0.186	0.062	0.032	0.500	0.120	0.175
F460-005	0.375	0.218	0.890	1.562	0.344	0.125	0.032	0.500	0.175	0.312

Diameter: 1/4" - 4"
Bolt Size: 1/4"
Position: Furnished Open
Notes: Medium duty clip that can be slipped over a tube or wire and closed with a bolt at assembly, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Cushion Code: A - EPDM Per SAE J200 Color: Black
B - Neoprene Per AMS 3209 Color: Black
C - Silicone Per AMS 3303 Color: Red/Orange



F504-008 AA Clamp, Galv, EPDM Cush, 1/2" Dia



Base Part Number	D	H	L	W	E	F	G
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Gap	Material Thickness
	± .015	± .005	± .031	± .010	± .015	± .032	± .002
F504-004	0.250	0.265	0.530	0.500	0.218	0.125	0.032
F504-005	0.313	0.265	0.561	0.500	0.218	0.125	0.032
F504-006	0.375	0.265	0.593	0.500	0.218	0.125	0.032
F504-007	0.438	0.265	0.624	0.500	0.218	0.125	0.032
F504-008	0.500	0.265	0.655	0.500	0.218	0.125	0.032
F504-009	0.563	0.265	0.752	0.500	0.218	0.125	0.032
F504-010	0.625	0.265	0.784	0.500	0.218	0.125	0.032
F504-011	0.688	0.265	0.815	0.500	0.218	0.125	0.032
F504-012	0.750	0.265	0.846	0.500	0.218	0.125	0.032
F504-013	0.813	0.265	0.877	0.500	0.218	0.125	0.032
F504-014	0.875	0.265	0.909	0.500	0.218	0.125	0.032
F504-015	0.938	0.265	0.940	0.500	0.218	0.125	0.032
F504-016	1.000	0.265	0.971	0.500	0.218	0.125	0.032
F504-017	1.063	0.265	1.002	0.500	0.218	0.125	0.032
F504-018	1.125	0.265	1.063	0.500	0.218	0.125	0.032
F504-019	1.188	0.265	1.094	0.500	0.218	0.125	0.032
F504-020	1.250	0.265	1.125	0.500	0.218	0.125	0.032
F504-021	1.313	0.265	1.156	0.500	0.218	0.125	0.032
F504-022	1.375	0.265	1.188	0.500	0.218	0.125	0.032
F504-023	1.438	0.265	1.219	0.500	0.218	0.125	0.032
F504-024	1.500	0.265	1.250	0.500	0.218	0.125	0.032
F504-025	1.563	0.265	1.281	0.500	0.218	0.125	0.032
F504-026	1.625	0.265	1.313	0.500	0.218	0.125	0.032
F504-027	1.688	0.265	1.344	0.500	0.218	0.125	0.032
F504-028	1.750	0.265	1.375	0.500	0.218	0.125	0.032
F504-029	1.813	0.265	1.406	0.500	0.218	0.125	0.032
F504-030	1.875	0.265	1.438	0.500	0.218	0.125	0.032
F504-031	1.938	0.265	1.469	0.500	0.218	0.125	0.032
F504-032	2.000	0.265	1.500	0.500	0.218	0.125	0.032
F504-033	2.063	0.265	1.531	0.500	0.218	0.125	0.048
F504-034	2.125	0.265	1.563	0.500	0.218	0.125	0.048



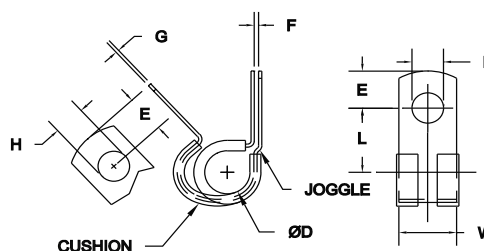
504 SERIES MEDIUM DUTY - CUSHIONED

Clip Specifications

Diameter: 1/4" - 4"
Bolt Size: 1/4"
Position: Furnished Open
Notes: Medium duty clip that can be slipped over a tube or wire and closed with a bolt at assembly, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code:
 A - ASTM A653 CS Type B G90
 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel
 Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow
 C - SAE 301/304 Stainless Steel
 D - SAE 5052-H32 Aluminium
 E - SAE 316 Stainless Steel

Cushion Code:
 A - EPDM Per SAE J200 Color: Black
 B - Neoprene Per AMS 3209 Color: Black
 C - Silicone Per AMS 3303 Color: Red/Orange



Part Number Call Out

F504-008 AA Clamp, Galv, EPDM Cush, 1/2" Dia
 ———— Cushion Code
 ———— Material Code
 ———— Base Part Number

Different sizes, materials and/or finishes not shown can be manufactured to your specifications

Base Part Number	D	H	L	W	E	F	G
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Gap	Material Thickness
	± .015	± .005	± .031	± .010	± .015	± .032	± .002
F504-036	2.250	0.265	1.625	0.500	0.218	0.125	0.048
F504-035	2.188	0.265	1.594	0.500	0.218	0.125	0.048
F504-036	2.250	0.265	1.625	0.500	0.218	0.125	0.048
F504-037	2.313	0.265	1.656	0.500	0.218	0.125	0.048
F504-038	2.375	0.265	1.688	0.500	0.218	0.125	0.048
F504-039	2.438	0.265	1.719	0.500	0.218	0.125	0.048
F504-040	2.500	0.265	1.750	0.500	0.218	0.125	0.048
F504-041	2.563	0.265	1.781	0.500	0.218	0.125	0.048
F504-042	2.625	0.265	1.813	0.500	0.218	0.125	0.048
F504-043	2.688	0.265	1.844	0.500	0.218	0.125	0.048
F504-044	2.750	0.265	1.875	0.500	0.218	0.125	0.048
F504-045	2.813	0.265	1.906	0.500	0.218	0.125	0.048
F504-046	2.875	0.265	1.938	0.500	0.218	0.125	0.048
F504-047	2.938	0.265	1.969	0.500	0.218	0.125	0.048
F504-048	3.000	0.265	2.000	0.500	0.218	0.125	0.048
F504-049	3.063	0.265	2.031	0.500	0.218	0.125	0.048
F504-050	3.125	0.265	2.063	0.500	0.218	0.125	0.048
F504-051	3.188	0.265	2.094	0.500	0.218	0.125	0.048
F504-052	3.250	0.265	2.125	0.500	0.218	0.125	0.048
F504-053	3.313	0.265	2.156	0.500	0.218	0.125	0.048
F504-054	3.375	0.265	2.188	0.500	0.218	0.125	0.048
F504-055	3.438	0.265	2.219	0.500	0.218	0.125	0.048
F504-056	3.500	0.265	2.250	0.500	0.218	0.125	0.048
F504-057	3.563	0.265	2.281	0.500	0.218	0.125	0.048
F504-058	3.625	0.265	2.313	0.500	0.218	0.125	0.048
F504-059	3.688	0.265	2.344	0.500	0.218	0.125	0.048
F504-060	3.750	0.265	2.375	0.500	0.218	0.125	0.048
F504-061	3.813	0.265	2.406	0.500	0.218	0.125	0.048
F504-062	3.875	0.265	2.438	0.500	0.218	0.125	0.048
F504-063	3.938	0.265	2.469	0.500	0.218	0.125	0.048
F504-064	4.000	0.265	2.500	0.500	0.218	0.125	0.048

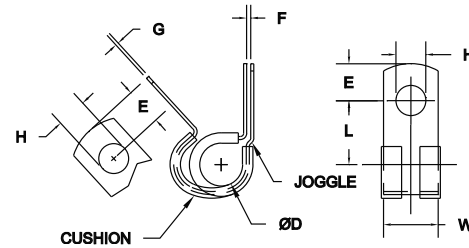


Clip Specifications

Diameter: 1/4" - 4"
Bolt Size: 1/4"-3/8"
Position: Furnished Open
Notes: Medium duty clip that can be slipped over a tube or wire and closed with a bolt at assembly, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code: A - ASTM A653 CS Type B G90 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow
 C - SAE 301/304 Stainless Steel
 D - SAE 5052-H32 Aluminium
 E - SAE 316 Stainless Steel

Cushion Code: A - EPDM Per SAE J200 Color: Black
 B - Neoprene Per AMS 3209 Color: Black
 C - Silicone Per AMS 3303 Color: Red/Orange



Part Number Call Out

F513-008 AA Clamp, Galv, EPDM Cush, 1/2" Dia, 3/8" Bolt

— Cushion Code
 — Material Code
 — Base Part Number

Different sizes, materials and/or finishes not shown can be manufactured to your specifications

Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Gap	Material Thickness	Slot Length
	± .015	± .005	± .031	± .010	± .015	± .032	± .002	± .020
F511-004	0.250	0.281	0.639	0.625	0.312	0.125	0.032	0.375
F512-004	0.250	0.343	0.639	0.625	0.312	0.125	0.032	0.438
F513-004	0.250	0.406	0.639	0.625	0.312	0.125	0.032	0.500
F511-005	0.313	0.281	0.670	0.625	0.312	0.125	0.032	0.375
F512-005	0.313	0.343	0.670	0.625	0.312	0.125	0.032	0.438
F513-005	0.313	0.406	0.670	0.625	0.312	0.125	0.032	0.500
F511-006	0.375	0.281	0.702	0.625	0.312	0.125	0.032	0.375
F512-006	0.375	0.343	0.702	0.625	0.312	0.125	0.032	0.438
F513-006	0.375	0.406	0.702	0.625	0.312	0.125	0.032	0.500
F511-007	0.438	0.281	0.733	0.625	0.312	0.125	0.032	0.375
F512-007	0.438	0.343	0.733	0.625	0.312	0.125	0.032	0.438
F513-007	0.438	0.406	0.733	0.625	0.312	0.125	0.032	0.500
F511-008	0.500	0.281	0.764	0.625	0.312	0.125	0.032	0.375
F512-008	0.500	0.343	0.764	0.625	0.312	0.125	0.032	0.438
F513-008	0.500	0.406	0.764	0.625	0.312	0.125	0.032	0.500
F511-009	0.563	0.281	0.795	0.625	0.312	0.125	0.032	0.375
F512-009	0.563	0.343	0.795	0.625	0.312	0.125	0.032	0.438
F513-009	0.563	0.406	0.795	0.625	0.312	0.125	0.032	0.500
F511-010	0.625	0.281	0.827	0.625	0.312	0.125	0.032	0.375
F512-010	0.625	0.343	0.827	0.625	0.312	0.125	0.032	0.438
F513-010	0.625	0.406	0.827	0.625	0.312	0.125	0.032	0.500
F511-011	0.688	0.281	0.858	0.625	0.312	0.125	0.032	0.375
F512-011	0.688	0.343	0.858	0.625	0.312	0.125	0.032	0.438
F513-011	0.688	0.406	0.858	0.625	0.312	0.125	0.032	0.500
F511-012	0.750	0.281	0.889	0.625	0.312	0.125	0.032	0.375
F512-012	0.750	0.343	0.889	0.625	0.312	0.125	0.032	0.438
F513-012	0.750	0.406	0.889	0.625	0.312	0.125	0.032	0.500
F511-013	0.813	0.281	0.920	0.625	0.312	0.125	0.032	0.375
F512-013	0.813	0.343	0.920	0.625	0.312	0.125	0.032	0.438
F513-013	0.813	0.406	0.920	0.625	0.312	0.125	0.032	0.500

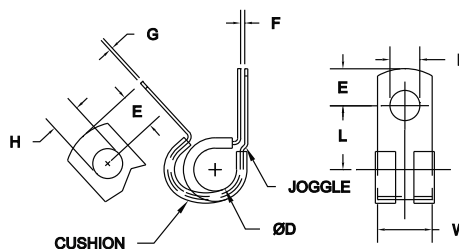


Clip Specifications

Diameter: 1/4" - 4"
Bolt Size: 1/4"-3/8"
Position: Furnished Open
Notes: Medium duty clip that can be slipped over a tube or wire and closed with a bolt at assembly, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code:
 A - ASTM A653 CS Type B G90 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow
 C - SAE 301/304 Stainless Steel
 D - SAE 5052-H32 Aluminium
 E - SAE 316 Stainless Steel

Cushion Code:
 A - EPDM Per SAE J200 Color: Black
 B - Neoprene Per AMS 3209 Color: Black
 C - Silicone Per AMS 3303 Color: Red/Orange



Part Number Call Out

F513-008 AA Clamp, Galv, EPDM Cush, 1/2" Dia, 3/8" Bolt
 ——— Cushion Code
 ——— Material Code
 ——— Base Part Number

Different sizes, materials and/or finishes not shown can be manufactured to your specifications

Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Gap	Material Thickness	Slot Length
	± .015	± .005	± .031	± .010	± .015	± .032	± .002	± .020
F511-014	0.875	0.281	0.952	0.625	0.312	0.125	0.032	0.375
F512-014	0.875	0.343	0.952	0.625	0.312	0.125	0.032	0.438
F513-014	0.875	0.406	0.952	0.625	0.312	0.125	0.032	0.500
F511-015	0.938	0.281	0.983	0.625	0.312	0.125	0.032	0.375
F512-015	0.938	0.343	0.983	0.625	0.312	0.125	0.032	0.438
F513-015	0.938	0.406	0.983	0.625	0.312	0.125	0.032	0.500
F511-016	1.000	0.281	1.014	0.625	0.312	0.125	0.032	0.375
F512-016	1.000	0.343	1.014	0.625	0.312	0.125	0.032	0.438
F513-016	1.000	0.406	1.014	0.625	0.312	0.125	0.032	0.500
F511-017	1.063	0.281	1.065	0.625	0.312	0.125	0.048	0.375
F512-017	1.063	0.343	1.065	0.625	0.312	0.125	0.048	0.438
F513-017	1.063	0.406	1.065	0.625	0.312	0.125	0.048	0.500
F511-018	1.125	0.281	1.097	0.625	0.312	0.125	0.048	0.375
F512-018	1.125	0.343	1.097	0.625	0.312	0.125	0.048	0.438
F513-018	1.125	0.406	1.097	0.625	0.312	0.125	0.048	0.500
F511-019	1.188	0.281	1.128	0.625	0.312	0.125	0.048	0.375
F512-019	1.188	0.343	1.128	0.625	0.312	0.125	0.048	0.438
F513-019	1.188	0.406	1.128	0.625	0.312	0.125	0.048	0.500
F511-020	1.250	0.281	1.159	0.625	0.312	0.125	0.048	0.375
F512-020	1.250	0.343	1.159	0.625	0.312	0.125	0.048	0.438
F513-020	1.250	0.406	1.159	0.625	0.312	0.125	0.048	0.500
F511-021	1.313	0.281	1.190	0.625	0.312	0.125	0.048	0.375
F512-021	1.313	0.343	1.190	0.625	0.312	0.125	0.048	0.438
F513-021	1.313	0.406	1.190	0.625	0.312	0.125	0.048	0.500
F511-022	1.375	0.281	1.222	0.625	0.312	0.125	0.048	0.375
F512-022	1.375	0.343	1.222	0.625	0.312	0.125	0.048	0.438
F513-022	1.375	0.406	1.222	0.625	0.312	0.125	0.048	0.500
F511-023	1.438	0.281	1.253	0.625	0.312	0.125	0.048	0.375
F512-023	1.438	0.343	1.253	0.625	0.312	0.125	0.048	0.438
F513-023	1.438	0.406	1.253	0.625	0.312	0.125	0.048	0.500



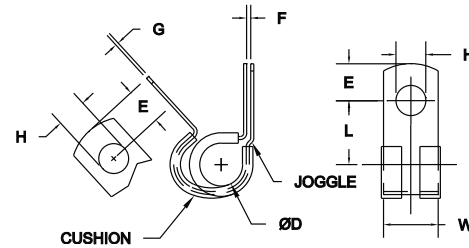
Clip Specifications

Diameter: 1/4" - 4"
Bolt Size: 1/4"-3/8"
Position: Furnished Open
Notes: Medium duty clip that can be slipped over a tube or wire and closed with a bolt at assembly, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code: A - ASTM A653 CS Type B G90 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow
 C - SAE 301/304 Stainless Steel
 D - SAE 5052-H32 Aluminium
 E - SAE 316 Stainless Steel

Cushion Code: A - EPDM Per SAE J200 Color: Black
 B - Neoprene Per AMS 3209 Color: Black
 C - Silicone Per AMS 3303 Color: Red/Orange

Different sizes, materials and/or finishes not shown can be manufactured to your specifications



Part Number Call Out

F513-008 AA Clamp, Galv, EPDM Cush, 1/2" Dia, 3/8" Bolt
 ——— Cushion Code
 ——— Material Code
 ——— Base Part Number

Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Gap	Material Thickness	Slot Length
	± .015	± .005	± .031	± .010	± .015	± .032	± .002	± .020
F511-024	1.500	0.281	1.284	0.625	0.312	0.125	0.048	0.375
F512-024	1.500	0.343	1.284	0.625	0.312	0.125	0.048	0.438
F513-024	1.500	0.406	1.284	0.625	0.312	0.125	0.048	0.500
F511-025	1.563	0.281	1.315	0.625	0.312	0.125	0.048	0.375
F512-025	1.563	0.343	1.315	0.625	0.312	0.125	0.048	0.438
F513-025	1.563	0.406	1.315	0.625	0.312	0.125	0.048	0.500
F511-026	1.625	0.281	1.347	0.625	0.312	0.125	0.048	0.375
F512-026	1.625	0.343	1.347	0.625	0.312	0.125	0.048	0.438
F513-026	1.625	0.406	1.347	0.625	0.312	0.125	0.048	0.500
F511-027	1.688	0.281	1.378	0.625	0.312	0.125	0.048	0.375
F512-027	1.688	0.343	1.378	0.625	0.312	0.125	0.048	0.438
F513-027	1.688	0.406	1.378	0.625	0.312	0.125	0.048	0.500
F511-028	1.750	0.281	1.409	0.625	0.312	0.125	0.048	0.375
F512-028	1.750	0.343	1.409	0.625	0.312	0.125	0.048	0.438
F513-028	1.750	0.406	1.409	0.625	0.312	0.125	0.048	0.500
F511-029	1.813	0.281	1.440	0.625	0.312	0.125	0.048	0.375
F512-029	1.813	0.343	1.440	0.625	0.312	0.125	0.048	0.438
F513-029	1.813	0.406	1.440	0.625	0.312	0.125	0.048	0.500
F511-030	1.875	0.281	1.472	0.625	0.312	0.125	0.048	0.375
F512-030	1.875	0.343	1.472	0.625	0.312	0.125	0.048	0.438
F513-030	1.875	0.406	1.472	0.625	0.312	0.125	0.048	0.500
F511-031	1.938	0.281	1.503	0.625	0.312	0.125	0.048	0.375
F512-031	1.938	0.343	1.503	0.625	0.312	0.125	0.048	0.438
F513-031	1.938	0.406	1.503	0.625	0.312	0.125	0.048	0.500
F511-032	2.000	0.281	1.534	0.625	0.312	0.125	0.048	0.375
F512-032	2.000	0.343	1.534	0.625	0.312	0.125	0.048	0.438
F513-032	2.000	0.406	1.534	0.625	0.312	0.125	0.048	0.500
F511-033	2.063	0.281	1.565	0.625	0.312	0.125	0.048	0.375
F512-033	2.063	0.343	1.565	0.625	0.312	0.125	0.048	0.438
F513-033	2.063	0.406	1.565	0.625	0.312	0.125	0.048	0.500

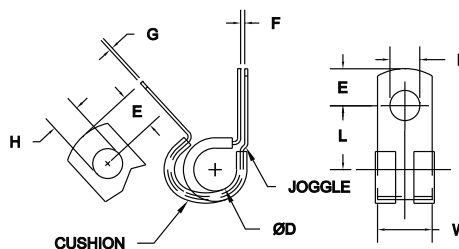


Clip Specifications

Diameter: 1/4" - 4"
Bolt Size: 1/4"-3/8"
Position: Furnished Open
Notes: Medium duty clip that can be slipped over a tube or wire and closed with a bolt at assembly, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code:
 A - ASTM A653 CS Type B G90 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow
 C - SAE 301/304 Stainless Steel
 D - SAE 5052-H32 Aluminium
 E - SAE 316 Stainless Steel

Cushion Code:
 A - EPDM Per SAE J200 Color: Black
 B - Neoprene Per AMS 3209 Color: Black
 C - Silicone Per AMS 3303 Color: Red/Orange



Part Number Call Out

F513-008 AA Clamp, Galv, EPDM Cush, 1/2" Dia, 3/8" Bolt
 Cushion Code
 Material Code
 Base Part Number

Different sizes, materials and/or finishes not shown can be manufactured to your specifications

Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Gap	Material Thickness	Slot Length
	± .015	± .005	± .031	± .010	± .015	± .032	± .002	± .020
F511-034	2.125	0.281	1.597	0.625	0.312	0.125	0.048	0.375
F512-034	2.125	0.343	1.597	0.625	0.312	0.125	0.048	0.438
F513-034	2.125	0.406	1.597	0.625	0.312	0.125	0.048	0.500
F511-035	2.188	0.281	1.628	0.625	0.312	0.125	0.048	0.375
F512-035	2.188	0.343	1.628	0.625	0.312	0.125	0.048	0.438
F513-035	2.188	0.406	1.628	0.625	0.312	0.125	0.048	0.500
F511-036	2.250	0.281	1.659	0.625	0.312	0.125	0.048	0.375
F512-036	2.250	0.343	1.659	0.625	0.312	0.125	0.048	0.438
F513-036	2.250	0.406	1.659	0.625	0.312	0.125	0.048	0.500
F511-037	2.313	0.281	1.690	0.625	0.312	0.125	0.048	0.375
F512-037	2.313	0.343	1.690	0.625	0.312	0.125	0.048	0.438
F513-037	2.313	0.406	1.690	0.625	0.312	0.125	0.048	0.500
F511-038	2.375	0.281	1.722	0.625	0.312	0.125	0.048	0.375
F512-038	2.375	0.343	1.722	0.625	0.312	0.125	0.048	0.438
F513-038	2.375	0.406	1.722	0.625	0.312	0.125	0.048	0.500
F511-039	2.438	0.281	1.753	0.625	0.312	0.125	0.048	0.375
F512-039	2.438	0.343	1.753	0.625	0.312	0.125	0.048	0.438
F513-039	2.438	0.406	1.753	0.625	0.312	0.125	0.048	0.500
F511-040	2.500	0.281	1.784	0.625	0.312	0.125	0.048	0.375
F512-040	2.500	0.343	1.784	0.625	0.312	0.125	0.048	0.438
F513-040	2.500	0.406	1.784	0.625	0.312	0.125	0.048	0.500
F511-041	2.563	0.281	1.815	0.625	0.312	0.125	0.048	0.375
F512-041	2.563	0.343	1.815	0.625	0.312	0.125	0.048	0.438
F513-041	2.563	0.406	1.815	0.625	0.312	0.125	0.048	0.500
F511-042	2.625	0.281	1.847	0.625	0.312	0.125	0.048	0.375
F512-042	2.625	0.343	1.847	0.625	0.312	0.125	0.048	0.438
F513-042	2.625	0.406	1.847	0.625	0.312	0.125	0.048	0.500
F511-043	2.688	0.281	1.878	0.625	0.312	0.125	0.048	0.375
F512-043	2.688	0.343	1.878	0.625	0.312	0.125	0.048	0.438
F513-043	2.688	0.406	1.878	0.625	0.312	0.125	0.048	0.500
F511-044	2.750	0.281	1.909	0.625	0.312	0.125	0.048	0.375



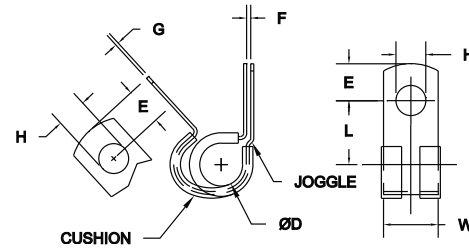
Clip Specifications

Diameter: 1/4" - 4"
Bolt Size: 1/4"-3/8"
Position: Furnished Open
Notes: Medium duty clip that can be slipped over a tube or wire and closed with a bolt at assembly, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code: A - ASTM A653 CS Type B G90 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow
 C - SAE 301/304 Stainless Steel
 D - SAE 5052-H32 Aluminium
 E - SAE 316 Stainless Steel

Cushion Code: A - EPDM Per SAE J200 Color: Black
 B - Neoprene Per AMS 3209 Color: Black
 C - Silicone Per AMS 3303 Color: Red/Orange

Different sizes, materials and/or finishes not shown can be manufactured to your specifications



Part Number Call Out

F513-008 AA Clamp, Galv, EPDM Cush, 1/2" Dia, 3/8" Bolt

— Cushion Code
 — Material Code
 — Base Part Number

Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Gap	Material Thickness	Slot Length
	± .015	± .005	± .031	± .010	± .015	± .032	± .002	± .020
F512-044	2.750	0.343	1.909	0.625	0.312	0.125	0.048	0.438
F513-044	2.750	0.406	1.909	0.625	0.312	0.125	0.048	0.500
F511-045	2.813	0.281	1.940	0.625	0.312	0.125	0.048	0.375
F512-045	2.813	0.343	1.940	0.625	0.312	0.125	0.048	0.438
F513-045	2.813	0.406	1.940	0.625	0.312	0.125	0.048	0.500
F511-046	2.875	0.281	1.972	0.625	0.312	0.125	0.048	0.375
F512-046	2.875	0.343	1.972	0.625	0.312	0.125	0.048	0.438
F513-046	2.875	0.406	1.972	0.625	0.312	0.125	0.048	0.500
F511-047	2.938	0.281	2.003	0.625	0.312	0.125	0.048	0.375
F512-047	2.938	0.343	2.003	0.625	0.312	0.125	0.048	0.438
F513-047	2.938	0.406	2.003	0.625	0.312	0.125	0.048	0.500
F511-048	3.000	0.281	2.034	0.625	0.312	0.125	0.048	0.375
F512-048	3.000	0.343	2.034	0.625	0.312	0.125	0.048	0.438
F513-048	3.000	0.406	2.034	0.625	0.312	0.125	0.048	0.500
F511-049	3.063	0.281	2.065	0.625	0.312	0.125	0.048	0.375
F512-049	3.063	0.343	2.065	0.625	0.312	0.125	0.048	0.438
F513-049	3.063	0.406	2.065	0.625	0.312	0.125	0.048	0.500
F511-050	3.125	0.281	2.097	0.625	0.312	0.125	0.048	0.375
F512-050	3.125	0.343	2.097	0.625	0.312	0.125	0.048	0.438
F513-050	3.125	0.406	2.097	0.625	0.312	0.125	0.048	0.500
F511-051	3.188	0.281	2.128	0.625	0.312	0.125	0.048	0.375
F512-051	3.188	0.343	2.128	0.625	0.312	0.125	0.048	0.438
F513-051	3.188	0.406	2.128	0.625	0.312	0.125	0.048	0.500
F511-052	3.250	0.281	2.159	0.625	0.312	0.125	0.048	0.375
F512-052	3.250	0.343	2.159	0.625	0.312	0.125	0.048	0.438
F513-052	3.250	0.406	2.159	0.625	0.312	0.125	0.048	0.500
F511-053	3.313	0.281	2.190	0.625	0.312	0.125	0.048	0.375
F512-053	3.313	0.343	2.190	0.625	0.312	0.125	0.048	0.438
F513-053	3.313	0.406	2.190	0.625	0.312	0.125	0.048	0.500
F511-054	3.375	0.281	2.222	0.625	0.312	0.125	0.048	0.375
F512-054	3.375	0.343	2.222	0.625	0.312	0.125	0.048	0.438

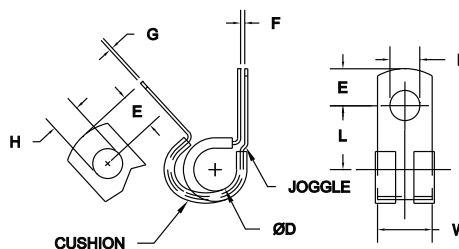


Clip Specifications

Diameter: 1/4" - 4"
Bolt Size: 1/4"-3/8"
Position: Furnished Open
Notes: Medium duty clip that can be slipped over a tube or wire and closed with a bolt at assembly, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code:
 A - ASTM A653 CS Type B G90 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow
 C - SAE 301/304 Stainless Steel
 D - SAE 5052-H32 Aluminium
 E - SAE 316 Stainless Steel

Cushion Code:
 A - EPDM Per SAE J200 Color: Black
 B - Neoprene Per AMS 3209 Color: Black
 C - Silicone Per AMS 3303 Color: Red/Orange



Part Number Call Out

F513-008 AA Clamp, Galv, EPDM Cush, 1/2" Dia, 3/8" Bolt
 Cushion Code
 Material Code
 Base Part Number

Different sizes, materials and/or finishes not shown can be manufactured to your specifications

Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Gap	Material Thickness	Slot Length
	± .015	± .005	± .031	± .010	± .015	± .032	± .002	± .020
F513-054	3.375	0.406	2.222	0.625	0.312	0.125	0.048	0.500
F511-055	3.438	0.281	2.253	0.625	0.312	0.125	0.048	0.375
F512-055	3.438	0.343	2.253	0.625	0.312	0.125	0.048	0.438
F513-055	3.438	0.406	2.253	0.625	0.312	0.125	0.048	0.500
F511-056	3.500	0.281	2.284	0.625	0.312	0.125	0.048	0.375
F512-056	3.500	0.343	2.284	0.625	0.312	0.125	0.048	0.438
F513-056	3.500	0.406	2.284	0.625	0.312	0.125	0.048	0.500
F511-057	3.563	0.281	2.315	0.625	0.312	0.125	0.048	0.375
F512-057	3.563	0.343	2.315	0.625	0.312	0.125	0.048	0.438
F513-057	3.563	0.406	2.315	0.625	0.312	0.125	0.048	0.500
F511-058	3.625	0.281	2.347	0.625	0.312	0.125	0.048	0.375
F512-058	3.625	0.343	2.347	0.625	0.312	0.125	0.048	0.438
F513-058	3.625	0.406	2.347	0.625	0.312	0.125	0.048	0.500
F511-059	3.688	0.281	2.378	0.625	0.312	0.125	0.048	0.375
F512-059	3.688	0.343	2.378	0.625	0.312	0.125	0.048	0.438
F513-059	3.688	0.406	2.378	0.625	0.312	0.125	0.048	0.500
F511-060	3.750	0.281	2.409	0.625	0.312	0.125	0.048	0.375
F512-060	3.750	0.343	2.409	0.625	0.312	0.125	0.048	0.438
F513-060	3.750	0.406	2.409	0.625	0.312	0.125	0.048	0.500
F511-061	3.813	0.281	2.440	0.625	0.312	0.125	0.048	0.375
F512-061	3.813	0.343	2.440	0.625	0.312	0.125	0.048	0.438
F513-061	3.813	0.406	2.440	0.625	0.312	0.125	0.048	0.500
F511-062	3.875	0.281	2.472	0.625	0.312	0.125	0.048	0.375
F512-062	3.875	0.343	2.472	0.625	0.312	0.125	0.048	0.438
F513-062	3.875	0.406	2.472	0.625	0.312	0.125	0.048	0.500
F511-063	3.938	0.281	2.503	0.625	0.312	0.125	0.048	0.375
F512-063	3.938	0.343	2.503	0.625	0.312	0.125	0.048	0.438
F513-063	3.938	0.406	2.503	0.625	0.312	0.125	0.048	0.500
F511-064	4.000	0.281	2.534	0.625	0.312	0.125	0.048	0.375
F512-064	4.000	0.343	2.534	0.625	0.312	0.125	0.048	0.438
F513-064	4.000	0.406	2.534	0.625	0.312	0.125	0.048	0.500

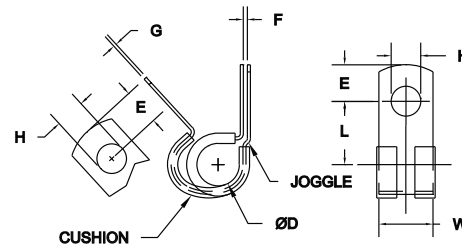


Clip Specifications

Diameter: 1/4" - 4"
Bolt Size: 1/4"-1/2"
Position: Furnished Open
Notes: Medium duty clip that can be slipped over a tube or wire and closed with a bolt at assembly, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code: A - ASTM A653 CS Type B G90 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow
 C - SAE 301/304 Stainless Steel
 D - SAE 5052-H32 Aluminium
 E - SAE 316 Stainless Steel

Cushion Code: A - EPDM Per SAE J200 Color: Black
 B - Neoprene Per AMS 3209 Color: Black
 C - Silicone Per AMS 3303 Color: Red/Orange



Part Number Call Out

F523-008 AA Clamp, Galv, EPDM Cush, 1/2" Dia, 3/8" Bolt
 Cushion Code
 Material Code
 Base Part Number

Different sizes, materials and/or finishes not shown can be manufactured to your specifications

Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Gap	Material Thickness	Slot Length
	± .015	± .005	± .031	± .010	± .015	± .032	± .002	± .020
F521-004	0.250	0.281	0.639	0.750	0.312	0.125	0.032	0.375
F522-004	0.250	0.343	0.639	0.750	0.312	0.125	0.032	0.438
F523-004	0.250	0.406	0.639	0.750	0.312	0.125	0.032	0.500
F524-004	0.250	0.531	0.748	0.750	0.440	0.125	0.032	0.625
F521-005	0.313	0.281	0.670	0.750	0.312	0.125	0.032	0.375
F522-005	0.313	0.343	0.670	0.750	0.312	0.125	0.032	0.438
F523-005	0.313	0.406	0.670	0.750	0.312	0.125	0.032	0.500
F524-005	0.313	0.531	0.779	0.750	0.440	0.125	0.032	0.625
F521-006	0.375	0.281	0.702	0.750	0.312	0.125	0.032	0.375
F522-006	0.375	0.343	0.702	0.750	0.312	0.125	0.032	0.438
F523-006	0.375	0.406	0.702	0.750	0.312	0.125	0.032	0.500
F524-006	0.375	0.531	0.811	0.750	0.440	0.125	0.032	0.625
F521-007	0.438	0.281	0.733	0.750	0.312	0.125	0.032	0.375
F522-007	0.438	0.343	0.733	0.750	0.312	0.125	0.032	0.438
F523-007	0.438	0.406	0.733	0.750	0.312	0.125	0.032	0.500
F524-007	0.438	0.531	0.842	0.750	0.440	0.125	0.032	0.625
F521-008	0.500	0.281	0.764	0.750	0.312	0.125	0.032	0.375
F522-008	0.500	0.343	0.764	0.750	0.312	0.125	0.032	0.438
F523-008	0.500	0.406	0.764	0.750	0.312	0.125	0.032	0.500
F524-008	0.500	0.531	0.873	0.750	0.440	0.125	0.032	0.625
F521-009	0.563	0.281	0.795	0.750	0.312	0.125	0.032	0.375
F522-009	0.563	0.343	0.795	0.750	0.312	0.125	0.032	0.438
F523-009	0.563	0.406	0.795	0.750	0.312	0.125	0.032	0.500
F524-009	0.563	0.531	0.904	0.750	0.440	0.125	0.032	0.625
F521-010	0.625	0.281	0.827	0.750	0.312	0.125	0.032	0.375
F522-010	0.625	0.343	0.827	0.750	0.312	0.125	0.032	0.438
F523-010	0.625	0.406	0.827	0.750	0.312	0.125	0.032	0.500
F524-010	0.625	0.531	0.936	0.750	0.440	0.125	0.032	0.625
F521-011	0.688	0.281	0.858	0.750	0.312	0.125	0.032	0.375
F522-011	0.688	0.343	0.858	0.750	0.312	0.125	0.032	0.438
F523-011	0.688	0.406	0.858	0.750	0.312	0.125	0.032	0.500



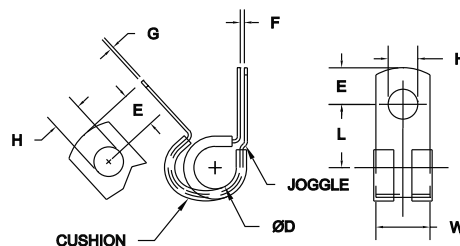
Clip Specifications

Diameter: 1/4" - 4"
Bolt Size: 1/4"-1/2"
Position: Furnished Open
Notes: Medium duty clip that can be slipped over a tube or wire and closed with a bolt at assembly, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code: A - ASTM A653 CS Type B G90 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow
 C - SAE 301/304 Stainless Steel
 D - SAE 5052-H32 Aluminium
 E - SAE 316 Stainless Steel

Cushion Code: A - EPDM Per SAE J200 Color: Black
 B - Neoprene Per AMS 3209 Color: Black
 C - Silicone Per AMS 3303 Color: Red/Orange

Different sizes, materials and/or finishes not shown can be manufactured to your specifications



Part Number Call Out

F523-008 AA Clamp, Galv, EPDM Cush, 1/2" Dia, 3/8" Bolt
 Cushion Code
 Material Code
 Base Part Number

Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Gap	Material Thickness	Slot Length
	± .015	± .005	± .031	± .010	± .015	± .032	± .002	± .020
F524-011	0.688	0.531	0.967	0.750	0.440	0.125	0.032	0.625
F521-012	0.750	0.281	0.889	0.750	0.312	0.125	0.032	0.375
F522-012	0.750	0.343	0.889	0.750	0.312	0.125	0.032	0.438
F523-012	0.750	0.406	0.889	0.750	0.312	0.125	0.032	0.500
F524-012	0.750	0.531	0.998	0.750	0.440	0.125	0.032	0.625
F521-013	0.813	0.281	0.920	0.750	0.312	0.125	0.032	0.375
F522-013	0.813	0.343	0.920	0.750	0.312	0.125	0.032	0.438
F523-013	0.813	0.406	0.920	0.750	0.312	0.125	0.032	0.500
F524-013	0.813	0.531	1.029	0.750	0.440	0.125	0.032	0.625
F521-014	0.875	0.281	0.952	0.750	0.312	0.125	0.032	0.375
F522-014	0.875	0.343	0.952	0.750	0.312	0.125	0.032	0.438
F523-014	0.875	0.406	0.952	0.750	0.312	0.125	0.032	0.500
F524-014	0.875	0.531	1.061	0.750	0.440	0.125	0.032	0.625
F521-015	0.938	0.281	0.983	0.750	0.312	0.125	0.032	0.375
F522-015	0.938	0.343	0.983	0.750	0.312	0.125	0.032	0.438
F523-015	0.938	0.406	0.983	0.750	0.312	0.125	0.032	0.500
F524-015	0.938	0.531	1.092	0.750	0.440	0.125	0.032	0.625
F521-016	1.000	0.281	1.014	0.750	0.312	0.125	0.032	0.375
F522-016	1.000	0.343	1.014	0.750	0.312	0.125	0.032	0.438
F523-016	1.000	0.406	1.014	0.750	0.312	0.125	0.032	0.500
F524-016	1.000	0.531	1.123	0.750	0.440	0.125	0.032	0.625
F521-017	1.063	0.281	1.065	0.750	0.312	0.125	0.048	0.375
F522-017	1.063	0.343	1.065	0.750	0.312	0.125	0.048	0.438
F523-017	1.063	0.406	1.065	0.750	0.312	0.125	0.048	0.500
F524-017	1.063	0.531	1.174	0.750	0.440	0.125	0.048	0.625
F521-018	1.125	0.281	1.097	0.750	0.312	0.125	0.048	0.375
F522-018	1.125	0.343	1.097	0.750	0.312	0.125	0.048	0.438
F523-018	1.125	0.406	1.097	0.750	0.312	0.125	0.048	0.500
F524-018	1.125	0.531	1.206	0.750	0.440	0.125	0.048	0.625
F521-019	1.188	0.281	1.128	0.750	0.312	0.125	0.048	0.375
F522-019	1.188	0.343	1.128	0.750	0.312	0.125	0.048	0.438

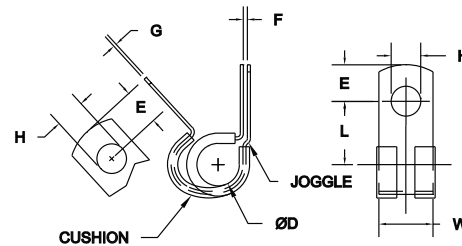


Clip Specifications

Diameter: 1/4" - 4"
Bolt Size: 1/4"-1/2"
Position: Furnished Open
Notes: Medium duty clip that can be slipped over a tube or wire and closed with a bolt at assembly, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code: A - ASTM A653 CS Type B G90 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow
 C - SAE 301/304 Stainless Steel
 D - SAE 5052-H32 Aluminium
 E - SAE 316 Stainless Steel

Cushion Code: A - EPDM Per SAE J200 Color: Black
 B - Neoprene Per AMS 3209 Color: Black
 C - Silicone Per AMS 3303 Color: Red/Orange



Part Number Call Out

F523-008 AA Clamp, Galv, EPDM Cush, 1/2" Dia, 3/8" Bolt

— Cushion Code
 — Material Code
 — Base Part Number

Different sizes, materials and/or finishes not shown can be manufactured to your specifications

Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Gap	Material Thickness	Slot Length
	± .015	± .005	± .031	± .010	± .015	± .032	± .002	± .020
F524-019	1.188	0.531	1.237	0.750	0.440	0.125	0.048	0.625
F523-019	1.188	0.406	1.128	0.750	0.312	0.125	0.048	0.500
F521-027	1.688	0.281	1.378	0.750	0.312	0.125	0.048	0.375
F522-027	1.688	0.343	1.378	0.750	0.312	0.125	0.048	0.438
F523-027	1.688	0.406	1.378	0.750	0.312	0.125	0.048	0.500
F524-027	1.688	0.531	1.487	0.750	0.440	0.125	0.048	0.625
F521-028	1.750	0.281	1.409	0.750	0.312	0.125	0.048	0.375
F522-028	1.750	0.343	1.409	0.750	0.312	0.125	0.048	0.438
F523-028	1.750	0.406	1.409	0.750	0.312	0.125	0.048	0.500
F524-028	1.750	0.531	1.518	0.750	0.440	0.125	0.048	0.625
F521-029	1.813	0.281	1.440	0.750	0.312	0.125	0.048	0.375
F522-029	1.813	0.343	1.440	0.750	0.312	0.125	0.048	0.438
F523-029	1.813	0.406	1.440	0.750	0.312	0.125	0.048	0.500
F524-029	1.813	0.531	1.549	0.750	0.440	0.125	0.048	0.625
F521-030	1.875	0.281	1.472	0.750	0.312	0.125	0.048	0.375
F522-030	1.875	0.343	1.472	0.750	0.312	0.125	0.048	0.438
F523-030	1.875	0.406	1.472	0.750	0.312	0.125	0.048	0.500
F524-030	1.875	0.531	1.581	0.750	0.440	0.125	0.048	0.625
F521-031	1.938	0.281	1.503	0.750	0.312	0.125	0.048	0.375
F522-031	1.938	0.343	1.503	0.750	0.312	0.125	0.048	0.438
F523-031	1.938	0.406	1.503	0.750	0.312	0.125	0.048	0.500
F524-031	1.938	0.531	1.612	0.750	0.440	0.125	0.048	0.625
F521-032	2.000	0.281	1.534	0.750	0.312	0.125	0.048	0.375
F522-032	2.000	0.343	1.534	0.750	0.312	0.125	0.048	0.438
F523-032	2.000	0.406	1.534	0.750	0.312	0.125	0.048	0.500
F524-032	2.000	0.531	1.643	0.750	0.440	0.125	0.048	0.625
F521-033	2.063	0.281	1.565	0.750	0.312	0.125	0.048	0.375
F522-033	2.063	0.343	1.565	0.750	0.312	0.125	0.048	0.438
F523-033	2.063	0.406	1.565	0.750	0.312	0.125	0.048	0.500
F524-033	2.063	0.531	1.674	0.750	0.440	0.125	0.048	0.625
F521-034	2.125	0.281	1.597	0.750	0.312	0.125	0.048	0.375

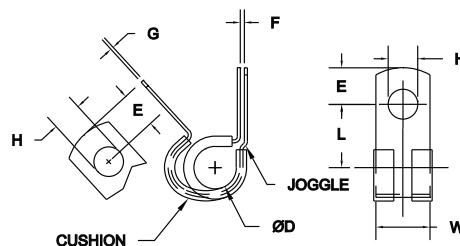


Clip Specifications

Diameter: 1/4" - 4"
Bolt Size: 1/4"-1/2"
Position: Furnished Open
Notes: Medium duty clip that can be slipped over a tube or wire and closed with a bolt at assembly, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code: A - ASTM A653 CS Type B G90 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow
 C - SAE 301/304 Stainless Steel
 D - SAE 5052-H32 Aluminium
 E - SAE 316 Stainless Steel

Cushion Code: A - EPDM Per SAE J200 Color: Black
 B - Neoprene Per AMS 3209 Color: Black
 C - Silicone Per AMS 3303 Color: Red/Orange



Part Number Call Out

F523-008 AA Clamp, Galv, EPDM Cush, 1/2" Dia, 3/8" Bolt
 Cushion Code
 Material Code
 Base Part Number

Different sizes, materials and/or finishes not shown can be manufactured to your specifications

Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Gap	Material Thickness	Slot Length
	± .015	± .005	± .031	± .010	± .015	± .032	± .002	± .020
F522-034	2.125	0.343	1.597	0.750	0.312	0.125	0.048	0.438
F523-034	2.125	0.406	1.597	0.750	0.312	0.125	0.048	0.500
F524-034	2.125	0.531	1.706	0.750	0.440	0.125	0.048	0.625
F521-035	2.188	0.281	1.628	0.750	0.312	0.125	0.048	0.375
F522-035	2.188	0.343	1.628	0.750	0.312	0.125	0.048	0.438
F523-035	2.188	0.406	1.628	0.750	0.312	0.125	0.048	0.500
F524-035	2.188	0.531	1.737	0.750	0.440	0.125	0.048	0.625
F521-036	2.250	0.281	1.659	0.750	0.312	0.125	0.048	0.375
F522-036	2.250	0.343	1.659	0.750	0.312	0.125	0.048	0.438
F523-036	2.250	0.406	1.659	0.750	0.312	0.125	0.048	0.500
F524-036	2.250	0.531	1.768	0.750	0.440	0.125	0.048	0.625
F521-037	2.313	0.281	1.690	0.750	0.312	0.125	0.048	0.375
F522-037	2.313	0.343	1.690	0.750	0.312	0.125	0.048	0.438
F523-037	2.313	0.406	1.690	0.750	0.312	0.125	0.048	0.500
F524-037	2.313	0.531	1.799	0.750	0.440	0.125	0.048	0.625
F521-038	2.375	0.281	1.722	0.750	0.312	0.125	0.048	0.375
F522-038	2.375	0.343	1.722	0.750	0.312	0.125	0.048	0.438
F523-038	2.375	0.406	1.722	0.750	0.312	0.125	0.048	0.500
F524-038	2.375	0.531	1.831	0.750	0.440	0.125	0.048	0.625
F521-039	2.438	0.281	1.753	0.750	0.312	0.125	0.048	0.375
F522-039	2.438	0.343	1.753	0.750	0.312	0.125	0.048	0.438
F523-039	2.438	0.406	1.753	0.750	0.312	0.125	0.048	0.500
F524-039	2.438	0.531	1.862	0.750	0.440	0.125	0.048	0.625
F521-040	2.500	0.281	1.784	0.750	0.312	0.125	0.048	0.375
F522-040	2.500	0.343	1.784	0.750	0.312	0.125	0.048	0.438
F523-040	2.500	0.406	1.784	0.750	0.312	0.125	0.048	0.500
F524-040	2.500	0.531	1.893	0.750	0.440	0.125	0.048	0.625
F521-041	2.563	0.281	1.815	0.750	0.312	0.125	0.048	0.375
F522-041	2.563	0.343	1.815	0.750	0.312	0.125	0.048	0.438
F523-041	2.563	0.406	1.815	0.750	0.312	0.125	0.048	0.500
F524-041	2.563	0.531	1.924	0.750	0.440	0.125	0.048	0.625

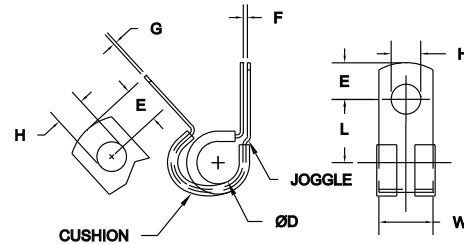


Clip Specifications

Diameter: 1/4" - 4"
Bolt Size: 1/4"-1/2"
Position: Furnished Open
Notes: Medium duty clip that can be slipped over a tube or wire and closed with a bolt at assembly, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code: A - ASTM A653 CS Type B G90 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow
 C - SAE 301/304 Stainless Steel
 D - SAE 5052-H32 Aluminium
 E - SAE 316 Stainless Steel

Cushion Code: A - EPDM Per SAE J200 Color: Black
 B - Neoprene Per AMS 3209 Color: Black
 C - Silicone Per AMS 3303 Color: Red/Orange



Part Number Call Out

F523-008 AA Clamp, Galv, EPDM Cush, 1/2" Dia, 3/8" Bolt
 Cushion Code
 Material Code
 Base Part Number

Different sizes, materials and/or finishes not shown can be manufactured to your specifications

Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Gap	Material Thickness	Slot Length
	± .015	± .005	± .031	± .010	± .015	± .032	± .002	± .020
F521-042	2.625	0.281	1.847	0.750	0.312	0.125	0.048	0.375
F522-042	2.625	0.343	1.847	0.750	0.312	0.125	0.048	0.438
F523-042	2.625	0.406	1.847	0.750	0.312	0.125	0.048	0.500
F524-042	2.625	0.531	1.956	0.750	0.440	0.125	0.048	0.625
F521-043	2.688	0.281	1.878	0.750	0.312	0.125	0.048	0.375
F522-043	2.688	0.343	1.878	0.750	0.312	0.125	0.048	0.438
F523-043	2.688	0.406	1.878	0.750	0.312	0.125	0.048	0.500
F524-043	2.688	0.531	1.987	0.750	0.440	0.125	0.048	0.625
F521-044	2.750	0.281	1.909	0.750	0.312	0.125	0.048	0.375
F522-044	2.750	0.343	1.909	0.750	0.312	0.125	0.048	0.438
F523-044	2.750	0.406	1.909	0.750	0.312	0.125	0.048	0.500
F524-044	2.750	0.531	2.018	0.750	0.440	0.125	0.048	0.625
F521-045	2.813	0.281	1.940	0.750	0.312	0.125	0.048	0.375
F522-045	2.813	0.343	1.940	0.750	0.312	0.125	0.048	0.438
F523-045	2.813	0.406	1.940	0.750	0.312	0.125	0.048	0.500
F524-045	2.813	0.531	2.049	0.750	0.440	0.125	0.048	0.625
F521-046	2.875	0.281	1.972	0.750	0.312	0.125	0.048	0.375
F522-046	2.875	0.343	1.972	0.750	0.312	0.125	0.048	0.438
F523-046	2.875	0.406	1.972	0.750	0.312	0.125	0.048	0.500
F524-046	2.875	0.531	2.081	0.750	0.440	0.125	0.048	0.625
F521-047	2.938	0.281	2.003	0.750	0.312	0.125	0.048	0.375
F522-047	2.938	0.343	2.003	0.750	0.312	0.125	0.048	0.438
F523-047	2.938	0.406	2.003	0.750	0.312	0.125	0.048	0.500
F524-047	2.938	0.531	2.112	0.750	0.440	0.125	0.048	0.625
F521-048	3.000	0.281	2.034	0.750	0.312	0.125	0.048	0.375
F522-048	3.000	0.343	2.034	0.750	0.312	0.125	0.048	0.438
F523-048	3.000	0.406	2.034	0.750	0.312	0.125	0.048	0.500
F524-048	3.000	0.531	2.143	0.750	0.440	0.125	0.048	0.625
F521-049	3.063	0.281	2.065	0.750	0.312	0.125	0.048	0.375
F522-049	3.063	0.343	2.065	0.750	0.312	0.125	0.048	0.438
F523-049	3.063	0.406	2.065	0.750	0.312	0.125	0.048	0.500

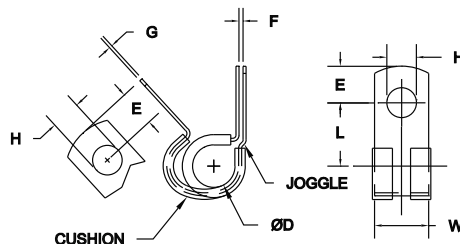


Clip Specifications

Diameter: 1/4" - 4"
Bolt Size: 1/4"-1/2"
Position: Furnished Open
Notes: Medium duty clip that can be slipped over a tube or wire and closed with a bolt at assembly, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code:
 A - ASTM A653 CS Type B G90 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow
 C - SAE 301/304 Stainless Steel
 D - SAE 5052-H32 Aluminium
 E - SAE 316 Stainless Steel

Cushion Code:
 A - EPDM Per SAE J200 Color: Black
 B - Neoprene Per AMS 3209 Color: Black
 C - Silicone Per AMS 3303 Color: Red/Orange



Part Number Call Out

F523-008 AA Clamp, Galv, EPDM Cush, 1/2" Dia, 3/8" Bolt

Cushion Code
 Material Code
 Base Part Number

Different sizes, materials and/or finishes not shown can be manufactured to your specifications

Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Gap	Material Thickness	Slot Length
	± .015	± .005	± .031	± .010	± .015	± .032	± .002	± .020
F524-049	3.063	0.531	2.174	0.750	0.440	0.125	0.048	0.625
F521-050	3.125	0.281	2.097	0.750	0.312	0.125	0.048	0.375
F522-050	3.125	0.343	2.097	0.750	0.312	0.125	0.048	0.438
F523-050	3.125	0.406	2.097	0.750	0.312	0.125	0.048	0.500
F524-050	3.125	0.531	2.206	0.750	0.440	0.125	0.048	0.625
F521-051	3.188	0.281	2.128	0.750	0.312	0.125	0.048	0.375
F522-051	3.188	0.343	2.128	0.750	0.312	0.125	0.048	0.438
F523-051	3.188	0.406	2.128	0.750	0.312	0.125	0.048	0.500
F524-051	3.188	0.531	2.237	0.750	0.440	0.125	0.048	0.625
F521-052	3.250	0.281	2.159	0.750	0.312	0.125	0.048	0.375
F522-052	3.250	0.343	2.159	0.750	0.312	0.125	0.048	0.438
F523-052	3.250	0.406	2.159	0.750	0.312	0.125	0.048	0.500
F524-052	3.250	0.531	2.268	0.750	0.440	0.125	0.048	0.625
F521-053	3.313	0.281	2.190	0.750	0.312	0.125	0.048	0.375
F522-053	3.313	0.343	2.190	0.750	0.312	0.125	0.048	0.438
F523-053	3.313	0.406	2.190	0.750	0.312	0.125	0.048	0.500
F524-053	3.313	0.531	2.299	0.750	0.440	0.125	0.048	0.625
F521-054	3.375	0.281	2.222	0.750	0.312	0.125	0.048	0.375
F522-054	3.375	0.343	2.222	0.750	0.312	0.125	0.048	0.438
F523-054	3.375	0.406	2.222	0.750	0.312	0.125	0.048	0.500
F524-054	3.375	0.531	2.331	0.750	0.440	0.125	0.048	0.625
F521-055	3.438	0.281	2.253	0.750	0.312	0.125	0.048	0.375
F522-055	3.438	0.343	2.253	0.750	0.312	0.125	0.048	0.438
F523-055	3.438	0.406	2.253	0.750	0.312	0.125	0.048	0.500
F524-055	3.438	0.531	2.362	0.750	0.440	0.125	0.048	0.625
F521-056	3.500	0.281	2.284	0.750	0.312	0.125	0.048	0.375
F522-056	3.500	0.343	2.284	0.750	0.312	0.125	0.048	0.438
F523-056	3.500	0.406	2.284	0.750	0.312	0.125	0.048	0.500
F524-056	3.500	0.531	2.393	0.750	0.440	0.125	0.048	0.625
F521-057	3.563	0.281	2.315	0.750	0.312	0.125	0.048	0.375
F522-057	3.563	0.343	2.315	0.750	0.312	0.125	0.048	0.438

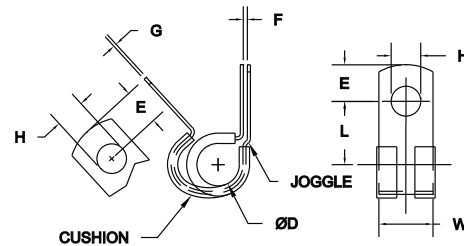


Clip Specifications

Diameter: 1/4" - 4"
Bolt Size: 1/4"-1/2"
Position: Furnished Open
Notes: Medium duty clip that can be slipped over a tube or wire and closed with a bolt at assembly, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code: A - ASTM A653 CS Type B G90 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel Zinc Plate per ASTM B633 Fe/Zn 8 Type VI Yellow
 C - SAE 301/304 Stainless Steel
 D - SAE 5052-H32 Aluminium
 E - SAE 316 Stainless Steel

Cushion Code: A - EPDM Per SAE J200 Color: Black
 B - Neoprene Per AMS 3209 Color: Black
 C - Silicone Per AMS 3303 Color: Red/Orange



Part Number Call Out

F523-008 AA Clamp, Galv, EPDM Cush, 1/2" Dia, 3/8" Bolt
 Cushion Code
 Material Code
 Base Part Number

Different sizes, materials and/or finishes not shown can be manufactured to your specifications

Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Gap	Material Thickness	Slot Length
	± .015	± .005	± .031	± .010	± .015	± .032	± .002	± .020
F523-057	3.563	0.406	2.315	0.750	0.312	0.125	0.048	0.500
F524-057	3.563	0.531	2.424	0.750	0.440	0.125	0.048	0.625
F521-058	3.625	0.281	2.347	0.750	0.312	0.125	0.048	0.375
F522-058	3.625	0.343	2.347	0.750	0.312	0.125	0.048	0.438
F523-058	3.625	0.406	2.347	0.750	0.312	0.125	0.048	0.500
F524-058	3.625	0.531	2.456	0.750	0.440	0.125	0.048	0.625
F521-059	3.688	0.281	2.378	0.750	0.312	0.125	0.048	0.375
F522-059	3.688	0.343	2.378	0.750	0.312	0.125	0.048	0.438
F523-059	3.688	0.406	2.378	0.750	0.312	0.125	0.048	0.500
F524-059	3.688	0.531	2.487	0.750	0.440	0.125	0.048	0.625
F521-060	3.750	0.281	2.409	0.750	0.312	0.125	0.048	0.375
F522-060	3.750	0.343	2.409	0.750	0.312	0.125	0.048	0.438
F523-060	3.750	0.406	2.409	0.750	0.312	0.125	0.048	0.500
F524-060	3.750	0.531	2.518	0.750	0.440	0.125	0.048	0.625
F521-061	3.813	0.281	2.440	0.750	0.312	0.125	0.048	0.375
F522-061	3.813	0.343	2.440	0.750	0.312	0.125	0.048	0.438
F523-061	3.813	0.406	2.440	0.750	0.312	0.125	0.048	0.500
F524-061	3.813	0.531	2.549	0.750	0.440	0.125	0.048	0.625
F521-062	3.875	0.281	2.472	0.750	0.312	0.125	0.048	0.375
F522-062	3.875	0.343	2.472	0.750	0.312	0.125	0.048	0.438
F523-062	3.875	0.406	2.472	0.750	0.312	0.125	0.048	0.500
F524-062	3.875	0.531	2.581	0.750	0.440	0.125	0.048	0.625
F521-063	3.938	0.281	2.503	0.750	0.312	0.125	0.048	0.375
F522-063	3.938	0.343	2.503	0.750	0.312	0.125	0.048	0.438
F523-063	3.938	0.406	2.503	0.750	0.312	0.125	0.048	0.500
F524-063	3.938	0.531	2.612	0.750	0.440	0.125	0.048	0.625
F521-064	4.000	0.281	2.534	0.750	0.312	0.125	0.048	0.375
F522-064	4.000	0.343	2.534	0.750	0.312	0.125	0.048	0.438
F523-064	4.000	0.406	2.534	0.750	0.312	0.125	0.048	0.500
F524-064	4.000	0.531	2.643	0.750	0.440	0.125	0.048	0.625



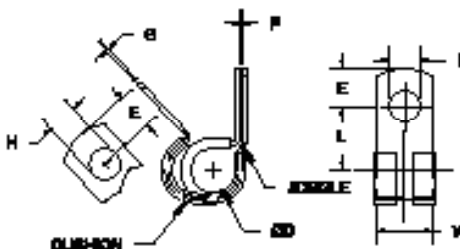
Clip Specifications

Diameter: 1/4"–4"
Bolt Size: 1/2"
Position: Furnished Open
Notes: Medium duty clip that can be slipped over a tube or wire and closed with a bolt at assembly. One round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code:
 A - ASTM A653 CS Type B G90 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel
 Zinc Plating per ASTM B633 Fe/Zn B Type VI Yellow
 C - SAE 301/304 Stainless Steel
 D - SAE 5052-H32 Aluminum
 E - SAE 316 Stainless Steel

Cushion Code:
 A - EPDM Per SAE J200 Color: Black
 B - Neoprene Per AMS 3209 Color: Black
 C - Silicone Per AMS 3803 Color: Red/Orange

Optional sizes, materials and cushion materials and colors can be manufactured for your application.



Part Number Call Out

F535-008AA Clamp, Galv, EPDM Cush, 1/2" Dia, 1/2" Bolt
 ————— Cushion Code
 ————— Material Code
 ————— Base Part Number

Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Gap	Material Thickness	Slot Length
	± .015	± .005	± .031	± .010	± .015	± .032	± .002	± .020
F535-004	0.250	0.593	0.798	1.000	0.440	0.125	0.032	0.688
F535-005	0.313	0.593	0.829	1.000	0.440	0.125	0.032	0.688
F535-006	0.375	0.593	0.861	1.000	0.440	0.125	0.032	0.688
F535-007	0.438	0.593	0.892	1.000	0.440	0.125	0.032	0.688
F535-008	0.500	0.593	0.923	1.000	0.440	0.125	0.032	0.688
F535-009	0.563	0.593	0.954	1.000	0.440	0.125	0.032	0.688
F535-010	0.625	0.593	0.986	1.000	0.440	0.125	0.032	0.688
F535-011	0.688	0.593	1.017	1.000	0.440	0.125	0.032	0.688
F535-012	0.750	0.593	1.048	1.000	0.440	0.125	0.032	0.688
F535-013	0.813	0.593	1.079	1.000	0.440	0.125	0.032	0.688
F535-014	0.875	0.593	1.111	1.000	0.440	0.125	0.032	0.688
F535-015	0.938	0.593	1.142	1.000	0.440	0.125	0.032	0.688
F535-016	1.000	0.593	1.173	1.000	0.440	0.125	0.032	0.688
F535-017	1.063	0.593	1.224	1.000	0.440	0.125	0.048	0.688
F535-018	1.125	0.593	1.256	1.000	0.440	0.125	0.048	0.688
F535-019	1.188	0.593	1.287	1.000	0.440	0.125	0.048	0.688
F535-020	1.250	0.593	1.318	1.000	0.440	0.125	0.048	0.688
F535-021	1.313	0.593	1.349	1.000	0.440	0.125	0.048	0.688
F535-022	1.375	0.593	1.381	1.000	0.440	0.125	0.048	0.688
F535-023	1.438	0.593	1.412	1.000	0.440	0.125	0.048	0.688
F535-024	1.500	0.593	1.443	1.000	0.440	0.125	0.048	0.688
F535-025	1.563	0.593	1.474	1.000	0.440	0.125	0.048	0.688
F535-026	1.625	0.593	1.506	1.000	0.440	0.125	0.048	0.688
F535-027	1.688	0.593	1.537	1.000	0.440	0.125	0.048	0.688
F535-028	1.750	0.593	1.568	1.000	0.440	0.125	0.048	0.688
F535-029	1.813	0.593	1.599	1.000	0.440	0.125	0.048	0.688
F535-030	1.875	0.593	1.631	1.000	0.440	0.125	0.048	0.688
F535-031	1.938	0.593	1.662	1.000	0.440	0.125	0.048	0.688
F535-032	2.000	0.593	1.693	1.000	0.440	0.125	0.048	0.688
F535-033	2.063	0.593	1.724	1.000	0.440	0.125	0.048	0.688



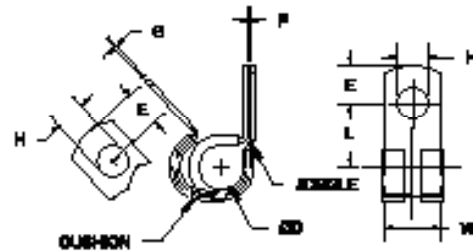
Clip Specifications

Diameter: 1/4"–4"
Bolt Size: 1/2"
Position: Furnished Open
Notes: Medium duty clip final can be slipped over a tube or wire and closed with a bolt at assembly, one round hole and one slot for ease of alignment, and a developed shape for proper closing.

Material Code:
 A - ASTM A553 CS Type B G90 Galvanized Steel
 B - ASTM A1008 CS Type B Low Carbon Steel Zinc Plate per ASTM B633 Fe/Zn B Type VI Yellow
 C - SAE 301/304 Stainless Steel
 D - SAE 5052-H32 Aluminum
 E - SAE 316 Stainless Steel

Cushion Code:
 A - EPDM Per SAE J200 Color: Black
 B - Neoprene Per AMS 3209 Color: Black
 C - Silicone Per AMS 3503 Color: Red/Orange

Optional sizes, materials and/or finishes and colors can be manufactured to your specifications.



Part Number Call Out

F535-008 A A Clamp, Galt, EPDM Cush, 1/2" Dia, 1/2" Bolt

Cushion Code
 Material Code
 Base Part Number

Base Part Number	D	H	L	W	E	F	G	S
	Clamping Diameter	Hole Diameter	Center to Center	Width	Hole/Slot Center to End	Gap	Material Thickness	Slot Length
	± .015	± .005	± .031	± .010	± .015	± .032	± .002	± .020
F535-034	2.125	0.593	1.756	1.000	0.440	0.125	0.048	0.688
F535-035	2.188	0.593	1.787	1.000	0.440	0.125	0.048	0.688
F535-036	2.250	0.593	1.818	1.000	0.440	0.125	0.048	0.688
F535-037	2.313	0.593	1.849	1.000	0.440	0.125	0.048	0.688
F535-038	2.375	0.593	1.881	1.000	0.440	0.125	0.048	0.688
F535-039	2.438	0.593	1.912	1.000	0.440	0.125	0.048	0.688
F535-040	2.500	0.593	1.943	1.000	0.440	0.125	0.048	0.688
F535-041	2.563	0.593	1.974	1.000	0.440	0.125	0.048	0.688
F535-042	2.625	0.593	2.006	1.000	0.440	0.125	0.048	0.688
F535-043	2.688	0.593	2.037	1.000	0.440	0.125	0.048	0.688
F535-044	2.750	0.593	2.068	1.000	0.440	0.125	0.048	0.688
F535-045	2.813	0.593	2.099	1.000	0.440	0.125	0.048	0.688
F535-046	2.875	0.593	2.131	1.000	0.440	0.125	0.048	0.688
F535-047	2.938	0.593	2.162	1.000	0.440	0.125	0.048	0.688
F535-048	3.000	0.593	2.193	1.000	0.440	0.125	0.048	0.688
F535-049	3.063	0.593	2.224	1.000	0.440	0.125	0.048	0.688
F535-050	3.125	0.593	2.256	1.000	0.440	0.125	0.048	0.688
F535-051	3.188	0.593	2.287	1.000	0.440	0.125	0.048	0.688
F535-052	3.250	0.593	2.318	1.000	0.440	0.125	0.048	0.688
F535-053	3.313	0.593	2.349	1.000	0.440	0.125	0.048	0.688
F535-054	3.375	0.593	2.381	1.000	0.440	0.125	0.048	0.688
F535-055	3.438	0.593	2.412	1.000	0.440	0.125	0.048	0.688
F535-056	3.500	0.593	2.443	1.000	0.440	0.125	0.048	0.688
F535-057	3.563	0.593	2.474	1.000	0.440	0.125	0.048	0.688
F535-058	3.625	0.593	2.506	1.000	0.440	0.125	0.048	0.688
F535-059	3.688	0.593	2.537	1.000	0.440	0.125	0.048	0.688
F535-060	3.750	0.593	2.568	1.000	0.440	0.125	0.048	0.688
F535-061	3.813	0.593	2.599	1.000	0.440	0.125	0.048	0.688
F535-062	3.875	0.593	2.631	1.000	0.440	0.125	0.048	0.688
F535-063	3.938	0.593	2.662	1.000	0.440	0.125	0.048	0.688
F535-064	4.000	0.593	2.693	1.000	0.440	0.125	0.048	0.688



COMPARISON GUIDE TO ELASTOMER PROPERTIES

	Natural Rubber	SBR	EPDM	Neoprene	Nitrile	Silicone	Fluorocarbon
Chemical Name	Polyisoprene	Styrene Butadiene	Ethylene Propylene	Chloroprene	Acrylonitrile Butadiene	Polysioxane	Fluorinated Hydrocarbon
SAE 200ASTM D-2000 Classification	AA	AA, BA	BA,CA,DA	BC, BE	BF,BG,BK	FC,FE,GE	HK
ASTM Designation (D-1418)	NR	SBR	EPDM,EPR	CR	NBR	Psi,Pvsi,Si	FKM
Physical Properties							
Specific Gravity	0.93	0.94	0.86	1.23	1.00	0.95 to 1.20	1.4 TO 1.95
Durometer Range	30-100	40-100	30-90	40-95	30-90	25-90	55-90
Tensile Strength	E	F-G	VG	VG	VG	F-G	VG
Elongation	VG-E	G	G	G	G	VG-E	F-G
Compression Set	G	G	G	F-G	G	G-E	G-E
Heat Resistance	F	F-G	VG-E	F-G	G	E	E
Resilience or Rebound	E	F-G	G	VG	F-G	G-E	F
Impact Resistance	E	E	G	G	F-G	P-G	E
Abrasion Resistance	E	G-E	G-E	G-E	G-E	P-F	F-G
Tear Resistance	E	F-G	F-G	F-G	F-G	P-F	F
Cut Growth	E	G	G	G	G	P-F	P-F
Flame Resistance	P	P	P	G	P	F-G	VG-E
Impermeability Gas	F	F-G	F-G	F-G	G	F-G	E
Weathering Resistance	P-F	F-G	E	VG	F-G	E	E
Low Temperature Limit	-10° to -50° F	0° to -50°F	-20° to -60°F	-10° to -50°F	-30° to -40°F	-65° to -150°F	+10° to -40°F
High Temperature Limit	158° to 225°F	158° to 225°F	158° to 225°F	225°F	275°F	400°F	400° to 450°F
Chemical Resistance Properties							
Acid	F-G	F-G	F-G	G	G	F-G	G
Alcohols	G	G	G	VG	F-G	G-E	F-E
Aliphatic Hydrocarbon Solvents	P	P	P	G	E	P-F	E
Alkali	F	F	F-G	E	VG	P	F-G
Animal & Vegetable Oils	F	F	F-G	G	VG	G-E	E
Aromatic Hydrocarbon Solvents	P	P	P	P-F	F-G	P-F	E
Oil & Gasoline	P	P	P	F-G	G-E	P-F	E
Oxygenated Solvents	G	G	G	P-F	P	F-G	P-F
Water	E	G-E	G-E	G	G-E	G-E	G

Key E=Excellent VG=Very Good G=Good F=Fair P=Poor

The above information is to be used as a guide and is not intended as a recommendation. Testing should be performed on a particular elastomer before use. Franklin Fastener cannot guarantee the accuracy or be held responsible for the information's end use. It is recommended that each elastomer be tested for its specific application.



KMC Part No.	FF Part No.	KMC Part No.	FF Part No.	KMC Part No.	FF Part No.
CF-0309	F201-003A	CFV-0413	F213-003A	CO-1209	F301-012A
CF-0311	F202-003A	CFV-0509	F211-005A	CO-1309	F301-013A
CF-0313	F203-003A	CFV-0511	F212-004A	CO-1409	F301-014A
CF-0409	F201-004A	CFV-0513	F213-004A	CO-1509	F301-015A
CF-0411	F202-004A	CFV-0609	F211-006A	CO-1609	F301-016A
CF-0413	F203-004A	CFV-0611	F212-005A	CO-1709	F301-017A
CF-0509	F201-005A	CFV-0613	F213-005A	CO-1809	F301-018A
CF-0511	F202-005A	CFV-0709	F211-007A	CO-1909	F301-019A
CF-0513	F203-005A	CFV-0711	F212-006A	CO-2009	F301-020A
CF-0609	F201-006A	CFV-0713	F213-006A	CO-2109	F301-021A
CF-0611	F202-006A	CFV-0809	F211-008A	CO-2209	F301-022A
CF-0613	F203-006A	CFV-0811	F212-007A	CO-2309	F301-023A
CF-0709	F201-007A	CFV-0813	F213-007A	CO-2409	F301-024A
CF-0711	F202-007A	CFV-0909	F211-009A	CO-2509	F301-025A
CF-0713	F203-007A	CFV-0911	F212-008A	CO-2609	F301-026A
CF-0809	F201-008A	CFV-0913	F213-008A	CO-2709	F301-027A
CF-0811	F202-008A	CFV-1009	F211-010A	CO-2809	F301-028A
CF-0813	F203-008A	CFV-1011	F212-009A	CO-2909	F301-029A
CF-0909	F201-009A	CFV-1013	F213-009A	CO-3009	F301-030A
CF-0911	F202-009A	CFV-1109	F211-011A	CO-3109	F301-031A
CF-0913	F203-009A	CFV-1111	F212-010A	CO-3209	F301-032A
CF-1009	F201-010A	CFV-1113	F213-010A	CO-3309	F301-033A
CF-1011	F202-010A	CFV-1209	F211-012A	CO-3409	F301-034A
CF-1013	F203-010A	CFV-1211	F212-011A	CO-3509	F301-035A
CF-1109	F201-011A	CFV-1213	F213-011A	CO-3609	F301-036A
CF-1111	F202-011A	CFV-1309	F211-013A	CO-3709	F301-037A
CF-1113	F203-011A	CFV-1311	F212-012A	CO-3909	F301-039A
CF-1209	F201-012A	CFV-1313	F213-012A	CO-4109	F301-041A
CF-1211	F202-012A	CFV-1409	F211-014A	CO-4309	F301-043A
CF-1213	F203-012A	CFV-1411	F212-013A	CO-4509	F301-045A
CF-1309	F201-013A	CFV-1413	F213-013A	CO-4709	F301-047A
CF-1311	F202-013A	CFV-1509	F211-015A	CO-4909	F301-049A
CF-1313	F203-013A	CFV-1511	F212-014A	CO-5309	F301-053A
CF-1409	F201-014A	CFV-1513	F213-014A	CO-5709	F301-057A
CF-1411	F202-014A	CFV-1609	F211-016A	CO-6109	F301-061A
CF-1413	F203-014A	CFV-1611	F212-015A	CO-6509	F301-065A
CF-1509	F201-015A	CFV-1613	F213-015A	CO-0211	F302-002A
CF-1511	F202-015A	CFV-1709	F211-017A	CO-0311	F302-003A
CF-1513	F203-015A	CFV-1711	F212-016A	CO-0411	F302-004A
CF-1609	F201-016A	CFV-1713	F213-016A	CO-0511	F302-005A
CF-1611	F202-016A	CO-0209	F301-002A	CO-0611	F302-006A
CF-1613	F203-016A	CO-0309	F301-003A	CO-0711	F302-007A
CF-1709	F201-017A	CO-0409	F301-004A	CO-0811	F302-008A
CF-1711	F202-017A	CO-0509	F301-005A	CO-0911	F302-009A
CF-1713	F203-017A	CO-0609	F301-006A	CO-1011	F302-010A
CFV-0309	F211-003A	CO-0709	F301-007A	CO-1111	F302-011A
CFV-0311	F212-002A	CO-0809	F301-008A	CO-1211	F302-012A
CFV-0313	F213-002A	CO-0909	F301-009A	CO-1311	F302-013A
CFV-0409	F211-004A	CO-1009	F301-010A	CO-1411	F302-014A
CFV-0411	F212-003A	CO-1109	F301-011A	CO-1511	F302-015A



CROSS REFERENCE CHART

KMC Part No.	FF Part No.	KMC Part No.	FF Part No.	KMC Part No.	FF Part No.
CO-1611	F302-016A	CO-2013	F303-020A	CO-2915	F304-029A
CO-1711	F302-017A	CO-2113	F303-021A	CO-3015	F304-030A
CO-1811	F302-018A	CO-2213	F303-022A	CO-3115	F304-031A
CO-1911	F302-019A	CO-2313	F303-023A	CO-3215	F304-032A
CO-2011	F302-020A	CO-2413	F303-024A	CO-3315	F304-033A
CO-2111	F302-021A	CO-2513	F303-025A	CO-3415	F304-034A
CO-2211	F302-022A	CO-2613	F303-026A	CO-3515	F304-035A
CO-2311	F302-023A	CO-2713	F303-027A	CO-3615	F304-036A
CO-2411	F302-024A	CO-2813	F303-028A	CO-3715	F304-037A
CO-2511	F302-025A	CO-2913	F303-029A	CO-3915	F304-039A
CO-2611	F302-026A	CO-3013	F303-030A	CO-4115	F304-041A
CO-2711	F302-027A	CO-3113	F303-031A	CO-4315	F304-043A
CO-2811	F302-028A	CO-3213	F303-032A	CO-4515	F304-045A
CO-2911	F302-029A	CO-3313	F303-033A	CO-4715	F304-047A
CO-3011	F302-030A	CO-3413	F303-034A	CO-4915	F304-049A
CO-3111	F302-031A	CO-3513	F303-035A	CO-5315	F304-053A
CO-3211	F302-032A	CO-3613	F303-036A	CO-5715	F304-057A
CO-3311	F302-033A	CO-3713	F303-037A	CO-6511	F304-061A
CO-3411	F302-034A	CO-3913	F303-039A	CO-6513	F304-065A
CO-3511	F302-035A	CO-4113	F303-041A	CO-0817	F305-008A
CO-3611	F302-036A	CO-4313	F303-043A	CO-0917	F305-009A
CO-3711	F302-037A	CO-4513	F303-045A	CO-1017	F305-010A
CO-3911	F302-039A	CO-4713	F303-047A	CO-1117	F305-011A
CO-4111	F302-041A	CO-4913	F303-049A	CO-1217	F305-012A
CO-4311	F302-043A	CO-5313	F303-053A	CO-1317	F305-013A
CO-4511	F302-045A	CO-5713	F303-057A	CO-1417	F305-014A
CO-4711	F302-047A	CO-6113	F303-061A	CO-1517	F305-015A
CO-4911	F302-049A	CO-6513	F303-065A	CO-1617	F305-016A
CO-5311	F302-053A	CO-0715	F304-007A	CO-1717	F305-017A
CO-5711	F302-057A	CO-0815	F304-008A	CO-1817	F305-018A
CO-6111	F302-061A	CO-0915	F304-009A	CO-1917	F305-019A
CO-6511	F302-065A	CO-1015	F304-010A	CO-2017	F305-020A
CO-0213	F303-002A	CO-1115	F304-011A	CO-2117	F305-021A
CO-0313	F303-003A	CO-1215	F304-012A	CO-2217	F305-022A
CO-0413	F303-004A	CO-1315	F304-013A	CO-2317	F305-023A
CO-0513	F303-005A	CO-1415	F304-014A	CO-2417	F305-024A
CO-0613	F303-006A	CO-1515	F304-015A	CO-2517	F305-025A
CO-0713	F303-007A	CO-1615	F304-016A	CO-2617	F305-026A
CO-0813	F303-008A	CO-1715	F304-017A	CO-2717	F305-027A
CO-0913	F303-009A	CO-1815	F304-018A	CO-2817	F305-028A
CO-1013	F303-010A	CO-1915	F304-019A	CO-2917	F305-029A
CO-1113	F303-011A	CO-2015	F304-020A	CO-3017	F305-030A
CO-1213	F303-012A	CO-2115	F304-021A	CO-3117	F305-031A
CO-1313	F303-013A	CO-2215	F304-022A	CO-3217	F305-032A
CO-1413	F303-014A	CO-2315	F304-023A	CO-3317	F305-033A
CO-1513	F303-015A	CO-2415	F304-024A	CO-3417	F305-034A
CO-1613	F303-016A	CO-2515	F304-025A	CO-3517	F305-035A
CO-1713	F303-017A	CO-2615	F304-026A	CO-3617	F305-036A
CO-1813	F303-018A	CO-2715	F304-027A	CO-3717	F305-037A
CO-1913	F303-019A	CO-2815	F304-028A	CO-3917	F305-039A



KMC Part No.	FF Part No.	KMC Part No.	FF Part No.	KMC Part No.	FF Part No.
CO-4117	F305-041A	COV-1309	F311-012A	COV-2309	F311-022A
CO-4317	F305-043A	COV-1311	F312-012A	COV-2311	F312-022A
CO-4517	F305-045A	COV-1313	F313-012A	COV-2313	F313-022A
CO-4717	F305-047A	COV-1315	F314-012A	COV-2315	F314-022A
CO-4917	F305-049A	COV-1317	F315-012A	COV-2317	F315-022A
CO-5317	F305-053A	COV-1409	F311-013A	COV-2409	F311-023A
CO-5717	F305-057A	COV-1411	F312-013A	COV-2411	F312-023A
CO-6117	F305-061A	COV-1413	F313-013A	COV-2413	F313-023A
CO-6517	F305-065A	COV-1415	F314-013A	COV-2415	F314-023A
COV-0309	F311-002A	COV-1417	F315-013A	COV-2417	F315-023A
COV-0311	F312-002A	COV-1509	F311-014A	COV-2509	F311-024A
COV-0313	F313-002A	COV-1511	F312-014A	COV-2511	F312-024A
COV-0409	F311-003A	COV-1513	F313-014A	COV-2513	F313-024A
COV-0411	F312-003A	COV-1515	F314-014A	COV-2515	F314-024A
COV-0413	F313-003A	COV-1517	F315-014A	COV-2517	F315-024A
COV-0509	F311-004A	COV-1609	F311-015A	COV-2609	F311-025A
COV-0511	F312-004A	COV-1611	F312-015A	COV-2611	F312-025A
COV-0513	F313-004A	COV-1613	F313-015A	COV-2613	F313-025A
COV-0609	F311-005A	COV-1615	F314-015A	COV-2615	F314-025A
COV-0611	F312-005A	COV-1617	F315-015A	COV-2617	F315-025A
COV-0613	F313-005A	COV-1709	F311-016A	COV-2709	F311-026A
COV-0709	F311-006A	COV-1711	F312-016A	COV-2711	F312-026A
COV-0711	F312-006A	COV-1713	F313-016A	COV-2713	F313-026A
COV-0713	F313-006A	COV-1715	F314-016A	COV-2715	F314-026A
COV-0715	F314-006A	COV-1717	F315-016A	COV-2717	F315-026A
COV-0809	F311-007A	COV-1809	F311-017A	COV-2809	F311-027A
COV-0811	F312-007A	COV-1811	F312-017A	COV-2811	F312-027A
COV-0813	F313-007A	COV-1813	F313-017A	COV-2813	F313-027A
COV-0815	F314-007A	COV-1815	F314-017A	COV-2815	F314-027A
COV-0817	F315-007A	COV-1817	F315-017A	COV-2817	F315-027A
COV-0909	F311-008A	COV-1909	F311-018A	COV-2909	F311-028A
COV-0911	F312-008A	COV-1911	F312-018A	COV-2911	F312-028A
COV-0913	F313-008A	COV-1913	F313-018A	COV-2913	F313-028A
COV-0915	F314-008A	COV-1915	F314-018A	COV-2915	F314-028A
COV-0917	F315-008A	COV-1917	F315-018A	COV-2917	F315-028A
COV-1009	F311-009A	COV-2009	F311-019A	COV-3009	F311-029A
COV-1011	F312-009A	COV-2011	F312-019A	COV-3011	F312-029A
COV-1013	F313-009A	COV-2013	F313-019A	COV-3013	F313-029A
COV-1015	F314-009A	COV-2015	F314-019A	COV-3015	F314-029A
COV-1017	F315-009A	COV-2017	F315-019A	COV-3017	F315-029A
COV-1109	F311-010A	COV-2109	F311-020A	COV-3109	F311-030A
COV-1111	F312-010A	COV-2111	F312-020A	COV-3111	F312-030A
COV-1113	F313-010A	COV-2113	F313-020A	COV-3113	F313-030A
COV-1115	F314-010A	COV-2115	F314-020A	COV-3115	F314-030A
COV-1117	F315-010A	COV-2117	F315-020A	COV-3117	F315-030A
COV-1209	F311-011A	COV-2209	F311-021A	COV-3209	F311-031A
COV-1211	F312-011A	COV-2211	F312-021A	COV-3211	F312-031A
COV-1213	F313-011A	COV-2213	F313-021A	COV-3213	F313-031A
COV-1215	F314-011A	COV-2215	F314-021A	COV-3215	F314-031A
COV-1217	F315-011A	COV-2217	F315-021A	COV-3217	F315-031A



CROSS REFERENCE CHART

KMC Part No.	FF Part No.	KMC Part No.	FF Part No.	KMC Part No.	FF Part No.
COV-3309	F311-032A	COV-4909	F311-048A	CH-1007	F401-010A
COV-3311	F312-032A	COV-4911	F312-048A	CH-1009	F402-010A
COV-3313	F313-032A	COV-4913	F313-048A	CH-1011	F403-010A
COV-3315	F314-032A	COV-4915	F314-048A	CH-1013	F404-010A
COV-3317	F315-032A	COV-4917	F315-048A	CH-1107	F401-011A
COV-3409	F311-033A	COV-5309	F311-052A	CH-1109	F402-011A
COV-3411	F312-033A	COV-5311	F312-052A	CH-1111	F403-011A
COV-3413	F313-033A	COV-5313	F313-052A	CH-1113	F404-011A
COV-3415	F314-033A	COV-5315	F314-052A	CH-1207	F401-012A
COV-3417	F315-033A	COV-5317	F315-052A	CH-1209	F402-012A
COV-3509	F311-034A	COV-5709	F311-056A	CH-1211	F403-012A
COV-3511	F312-034A	COV-5711	F312-056A	CH-1213	F404-012A
COV-3513	F313-034A	COV-5713	F313-056A	CH-1307	F401-013A
COV-3515	F314-034A	COV-5715	F314-056A	CH-1309	F402-013A
COV-3517	F315-034A	COV-5717	F315-056A	CH-1311	F403-013A
COV-3609	F311-035A	COV-6109	F311-060A	CH-1313	F404-013A
COV-3611	F312-035A	COV-6111	F312-060A	CH-1409	F402-014A
COV-3613	F313-035A	COV-6113	F313-060A	CH-1411	F403-014A
COV-3615	F314-035A	COV-6115	F314-060A	CH-1413	F404-014A
COV-3617	F315-035A	COV-6117	F315-060A	CH-1509	F402-015A
COV-3709	F311-036A	COV-6509	F311-064A	CH-1511	F403-015A
COV-3711	F312-036A	COV-6511	F312-064A	CH-1513	F404-015A
COV-3713	F313-036A	COV-6513	F313-064A	CH-1609	F402-016A
COV-3715	F314-036A	COV-6515	F314-064A	CH-1611	F403-016A
COV-3717	F315-036A	COV-6517	F315-064A	CH-1613	F404-016A
COV-3909	F311-038A	CH-0207	F401-002A	CH-1709	F402-017A
COV-3911	F312-038A	CH-0209	F402-002A	CH-1711	F403-017A
COV-3913	F313-038A	CH-0307	F401-003A	CH-1713	F404-017A
COV-3915	F314-038A	CH-0309	F402-003A	CHV-0407	F411-003A
COV-3917	F315-038A	CH-0407	F401-004A	CHV-0409	F412-003A
COV-4109	F311-040A	CH-0409	F402-004A	CHV-0507	F411-004A
COV-4111	F312-040A	CH-0507	F401-005A	CHV-0509	F412-004A
COV-4113	F313-040A	CH-0509	F402-005A	CHV-0511	F413-004A
COV-4115	F314-040A	CH-0511	F403-005A	CHV-0607	F411-005A
COV-4117	F315-040A	CH-0607	F401-006A	CHV-0609	F412-005A
COV-4309	F311-042A	CH-0609	F402-006A	CHV-0611	F413-005A
COV-4311	F312-042A	CH-0611	F403-006A	CHV-0613	F414-005A
COV-4313	F313-042A	CH-0613	F404-006A	CHV-0707	F411-006A
COV-4315	F314-042A	CH-0707	F401-007A	CHV-0709	F412-006A
COV-4317	F315-042A	CH-0709	F402-007A	CHV-0711	F413-006A
COV-4509	F311-044A	CH-0711	F403-007A	CHV-0713	F414-006A
COV-4511	F312-044A	CH-0713	F404-007A	CHV-0807	F411-007A
COV-4513	F313-044A	CH-0807	F401-008A	CHV-0809	F412-007A
COV-4515	F314-044A	CH-0809	F402-008A	CHV-0811	F413-007A
COV-4517	F315-044A	CH-0811	F403-008A	CHV-0813	F414-007A
COV-4709	F311-046A	CH-0813	F404-008A	CHV-0907	F411-008A
COV-4711	F312-046A	CH-0907	F401-009A	CHV-0909	F412-008A
COV-4713	F313-046A	CH-0909	F402-009A	CHV-0911	F413-008A
COV-4715	F314-046A	CH-0911	F403-009A	CHV-0913	F414-008A
COV-4717	F315-046A	CH-0913	F404-009A	CHV-1007	F411-009A



KMC Part No.	FF Part No.	KMC Part No.	FF Part No.	KMC Part No.	FF Part No.
CHV-1009	F412-009A	CD-0817	F426-008A	CDV-0711	F433-007A
CHV-1011	F413-009A	CD-0909	F422-009A	CDV-0713	F434-007A
CHV-1013	F414-009A	CD-0911	F423-009A	CDV-0715	F435-007A
CHV-1107	F411-010A	CD-0913	F424-009A	CDV-0717	F436-007A
CHV-1109	F412-010A	CD-0915	F425-009A	CDV-0809	F432-008A
CHV-1111	F413-010A	CD-0917	F426-009A	CDV-0811	F433-008A
CHV-1113	F414-010A	CD-1009	F422-010A	CDV-0813	F434-008A
CHV-1207	F411-011A	CD-1011	F423-010A	CDV-0815	F435-008A
CHV-1209	F412-011A	CD-1013	F424-010A	CDV-0817	F436-008A
CHV-1211	F413-011A	CD-1015	F425-010A	CDV-0909	F432-009A
CHV-1213	F414-011A	CD-1017	F426-010A	CDV-0911	F433-009A
CHV-1307	F411-012A	CD-1111	F423-011A	CDV-0913	F434-009A
CHV-1309	F412-012A	CD-1113	F424-011A	CDV-0915	F435-009A
CHV-1311	F413-012A	CD-1115	F425-011A	CDV-0917	F436-009A
CHV-1313	F414-012A	CD-1117	F426-011A	CDV-1009	F432-010A
CHV-1409	F412-013A	CD-1211	F423-012A	CDV-1011	F433-010A
CHV-1411	F413-013A	CD-1213	F424-012A	CDV-1013	F434-010A
CHV-1413	F414-013A	CD-1215	F425-012A	CDV-1015	F435-010A
CHV-1509	F412-014A	CD-1217	F426-012A	CDV-1017	F436-010A
CHV-1511	F413-014A	CD-1311	F423-013A	CDV-1111	F433-011A
CHV-1513	F414-014A	CD-1313	F424-013A	CDV-1113	F434-011A
CHV-1609	F412-015A	CD-1315	F425-013A	CDV-1115	F435-011A
CHV-1611	F413-015A	CD-1317	F426-013A	CDV-1117	F436-011A
CHV-1613	F414-015A	CD-1411	F423-014A	CDV-1211	F433-012A
CHV-1709	F412-016A	CD-1413	F424-014A	CDV-1213	F434-012A
CHV-1711	F413-016A	CD-1415	F425-014A	CDV-1215	F435-012A
CHV-1713	F414-016A	CD-1417	F426-014A	CDV-1217	F436-012A
CD-0307	F421-003A	CD-1511	F423-015A	CDV-1311	F433-013A
CD-0309	F422-003A	CD-1513	F424-015A	CDV-1313	F434-013A
CD-0311	F423-003A	CD-1515	F425-015A	CDV-1315	F435-013A
CD-0313	F424-003A	CD-1517	F426-015A	CDV-1317	F436-013A
CD-0407	F421-004A	CD-1611	F423-016A	CDV-1411	F433-014A
CD-0409	F422-004A	CD-1613	F424-016A	CDV-1413	F434-014A
CD-0411	F423-004A	CD-1615	F425-016A	CDV-1415	F435-014A
CD-0413	F424-004A	CD-1617	F426-016A	CDV-1417	F436-014A
CD-0509	F422-005A	CDV-0307	F431-003A	CDV-1511	F433-015A
CD-0511	F423-005A	CDV-0309	F432-003A	CDV-1513	F434-015A
CD-0513	F424-005A	CDV-0311	F433-003A	CDV-1515	F435-015A
CD-0609	F422-006A	CDV-0313	F434-003A	CDV-1517	F436-015A
CD-0611	F423-006A	CDV-0407	F431-004A	CDV-1611	F433-016A
CD-0613	F424-006A	CDV-0409	F432-004A	CDV-1613	F434-016A
CD-0615	F425-006A	CDV-0411	F433-004A	CDV-1615	F435-016A
CD-0617	F426-006A	CDV-0413	F434-004A	CDV-1617	F436-016A
CD-0709	F422-007A	CDV-0509	F432-005A	CJ-0207	F441-002A
CD-0711	F423-007A	CDV-0511	F433-005A	CJ-0209	F442-002A
CD-0713	F424-007A	CDV-0513	F434-005A	CJ-0211	F443-002A
CD-0715	F425-007A	CDV-0609	F432-006A	CJ-0213	F444-002A
CD-0717	F426-007A	CDV-0611	F433-006A	CJ-0307	F441-003A
CD-0809	F422-008A	CDV-0613	F434-006A	CJ-0309	F442-003A
CD-0811	F423-008A	CDV-0615	F435-006A	CJ-0311	F443-003A
CD-0813	F424-008A	CDV-0617	F436-006A	CJ-0313	F444-003A
CD-0815	F425-008A	CDV-0709	F432-007A	CJ-0407	F441-004A



CROSS REFERENCE CHART

KMC Part No.	FF Part No.	KMC Part No.	FF Part No.	KMC Part No.	FF Part No.
CJ-0409	F442-004A	CJ-2013	F444-020A	CJV-1113	F454-010A
CJ-0411	F443-004A	CJ-2109	F442-021A	CJV-1209	F452-011A
CJ-0413	F444-004A	CJ-2111	F443-021A	CJV-1211	F453-011A
CJ-0507	F441-005A	CJ-2113	F444-021A	CJV-1213	F454-011A
CJ-0509	F442-005A	CJ-2209	F442-022A	CJV-1309	F452-012A
CJ-0511	F443-005A	CJ-2211	F443-022A	CJV-1311	F453-012A
CJ-0513	F444-005A	CJ-2213	F444-022A	CJV-1313	F454-012A
CJ-0607	F441-006A	CJ-2309	F442-023A	CJV-1409	F452-013A
CJ-0609	F442-006A	CJ-2311	F443-023A	CJV-1411	F453-013A
CJ-0611	F443-006A	CJ-2313	F444-023A	CJV-1413	F454-013A
CJ-0613	F444-006A	CJ-2509	F442-025A	CJV-1509	F452-014A
CJ-0709	F442-007A	CJ-2511	F443-025A	CJV-1511	F453-014A
CJ-0711	F443-007A	CJ-2513	F444-025A	CJV-1513	F454-014A
CJ-0713	F444-007A	CJ-2709	F442-027A	CJV-1609	F452-015A
CJ-0809	F442-008A	CJ-2711	F443-027A	CJV-1611	F453-015A
CJ-0811	F443-008A	CJ-2713	F444-027A	CJV-1613	F454-015A
CJ-0813	F444-008A	CJ-2909	F442-029A	CJV-1709	F452-016A
CJ-0909	F442-009A	CJ-2911	F443-029A	CJV-1711	F453-016A
CJ-0911	F443-009A	CJ-2913	F444-029A	CJV-1713	F454-016A
CJ-0913	F444-009A	CJ-3309	F442-033A	CJV-1809	F452-017A
CJ-1009	F442-010A	CJ-3311	F443-033A	CJV-1811	F453-017A
CJ-1011	F443-010A	CJ-3313	F444-033A	CJV-1813	F454-017A
CJ-1013	F444-010A	CJV-0307	F451-002A	CJV-1909	F452-018A
CJ-1109	F442-011A	CJV-0309	F452-002A	CJV-1911	F453-018A
CJ-1111	F443-011A	CJV-0311	F453-002A	CJV-1913	F454-018A
CJ-1113	F444-011A	CJV-0313	F454-002A	CJV-2009	F452-019A
CJ-1209	F442-012A	CJV-0407	F451-003A	CJV-2011	F453-019A
CJ-1211	F443-012A	CJV-0409	F452-003A	CJV-2013	F454-019A
CJ-1213	F444-012A	CJV-0411	F453-003A	CJV-2109	F452-020A
CJ-1309	F442-013A	CJV-0413	F454-003A	CJV-2111	F453-020A
CJ-1311	F443-013A	CJV-0507	F451-004A	CJV-2113	F454-020A
CJ-1313	F444-013A	CJV-0509	F452-004A	CJV-2209	F452-021A
CJ-1409	F442-014A	CJV-0511	F453-004A	CJV-2211	F453-021A
CJ-1411	F443-014A	CJV-0513	F454-004A	CJV-2213	F454-021A
CJ-1413	F444-014A	CJV-0607	F451-005A	CJV-2309	F452-022A
CJ-1509	F442-015A	CJV-0609	F452-005A	CJV-2311	F453-022A
CJ-1511	F443-015A	CJV-0611	F453-005A	CJV-2313	F454-022A
CJ-1513	F444-015A	CJV-0613	F454-005A	CJV-2509	F452-024A
CJ-1609	F442-016A	CJV-0709	F452-006A	CJV-2511	F453-024A
CJ-1611	F443-016A	CJV-0711	F453-006A	CJV-2513	F454-024A
CJ-1613	F444-016A	CJV-0713	F454-006A	CJV-2709	F452-026A
CJ-1709	F442-017A	CJV-0809	F452-007A	CJV-2711	F453-026A
CJ-1711	F443-017A	CJV-0811	F453-007A	CJV-2713	F454-026A
CJ-1713	F444-017A	CJV-0813	F454-007A	CJV-2909	F452-028A
CJ-1809	F442-018A	CJV-0909	F452-008A	CJV-2911	F453-028A
CJ-1811	F443-018A	CJV-0911	F453-008A	CJV-2913	F454-028A
CJ-1813	F444-018A	CJV-0913	F454-008A	CJV-3309	F452-032A
CJ-1909	F442-019A	CJV-1009	F452-009A	CJV-3311	F453-032A
CJ-1911	F443-019A	CJV-1011	F453-009A	CJV-3313	F454-032A
CJ-1913	F444-019A	CJV-1013	F454-009A	FC-1032	F460-002
CJ-2009	F442-020A	CJV-1109	F452-010A	FC-2032	F460-003
CJ-2011	F443-020A	CJV-1111	F453-010A	FC-3032	F460-005



MANUFACTURING CAPABILITIES

Franklin Fastener has the capabilities in place to manufacture parts in the most efficient and cost effective way possible. With 35 dedicated employees and 26,000 square feet of manufacturing space, our company size allows us to constantly create new and improved ways of delivering the highest quality product to you. Working with Franklin Fastener, you can count on versatility, responsiveness and quick turnaround times. At Franklin Fastener, we are constantly upgrading our manufacturing techniques and technologies to offer you the latest modes of design and manufacturing.



FOURSLIDE / MULTISLIDE

- Parts produced from strip or wire
- Stock width up to 3.38 in (85 mm)
- Nilson fourslides 700L, SF2, SF3, & SF4T
- OMCG multislide 250, CNC16
- In-house tooling design and build
- Material thickness up to .125 in (3.10 mm)
- Infinite feed length
- Wire diameter up to .315 in (8 mm)
- Bihler multislide GRM50, GRM80
- Stock tooling for standard parts
- 75 ton press capacity for in-process embossing, coining, and trimming



METAL STAMPING

- High speed presses
- Feed length up to 12 in (305 mm)
- Material thickness up to .250 in (6.3 mm)
- Capacity to 250 tons
- High and low volume production
- Stock width up to 16 in (407 mm)
- In-house die design and build



PRODUCT APPLICATIONS

Franklin Fastener produces many products that have a variety of applications. Listed below are a few of the products Franklin Fastener manufactures and their applications:

- Brackets & Clips: Power Steering & Emission Related
- Coated Clamps: Recreational Vehicles & HVAC
- Cushioned Clamps: Defense & Aerospace
- Wire Forms: Automotive Seats & Plating Industry
- Patented Grommet Clamps: Fuel and other Fluid Applications
- Cushioned Clamps: Tubes, Hoses, and Wire Harnesses
- Spring Clips: Integrated Circuit Boards & Appliances
- Special Washers: Engines (Diesel, Gas & Hybrids) & Brake Systems

STANDARD PARTS

Franklin Fastener manufactures many standard parts that may meet your product application requirements. Some of our standard parts include:

- Plain Clamps (steel, plated, and stainless materials)
- Cushioned Clamps (steel, plated, stainless, EPDM, Silicone, and Neoprene materials)
- Ergo-Clamp™ (steel, plated, stainless materials)
- Coated Clamps (steel, plated, and stainless materials)
- MS and AS Standard Military Clamps.
- Iso-Cush System™ (steel, plated, stainless, EPDM, Silicone, and Neoprene materials)

Please refer to www.franklinfastener.com for more detailed information.



Dedicated To Our Customers Since 1953.

Franklin Fastener was founded in 1953 with four employees in a small Quonset building to service the auto industry. Since that time we have grown to over 35 dedicated employees, 26,000 square feet and sales in excess of eight million dollars.

We believe that customer service is the cornerstone of our business. Being responsive to customer needs, as well as offering the highest quality product at a fair price is simply the way we do business. Part of our commitment to customers is constantly updating our technologies to meet your needs in a more precise and cost effective fashion. These beliefs, combined with our work ethic, have kept Franklin Fastener working for some of the best names in the business for over 70 years.



Superior Customer Service & Exceptional Quality

These are the foundation of Franklin Fastener's business. Without them, we would be just like any other company. With them, we are able to consistently satisfy our customers' needs by producing the highest quality product in the minimal amount of time for maximum cost efficiency. Franklin Fastener is a unique company to work with because we get to know you and your product needs first. Then we start innovating. We make you feel like you are our only customer. And that's the Franklin Fastener difference.

For More Information call:

800-714-2172

or visit:

www.franklinfastener.com

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Registered to AS9100



Registered to ISO 9001



Registered to IATF 16949

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