

# STAINLESS STEEL CLAMPS 2-SSC & SSC SERIES

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Product Booklet



## 2-SSC & SSC Series Clamps Introduction to Clamps Page 2



## 2-SSC Series Boshart Clamps Pages 3-5



## SSC Series BREEZE Clamps Pages 6-8



## 28-CB(D)(S) Series Contractor Bins Page 9



## Installation Instructions

Page 10



# 2-SSC & SSC STAINLESS STEEL CLAMPS

Gear clamps (also called worm gear hose clamps) are metal bands with a screw mechanism that tighten the band around a hose, pipe, or fitting. When you turn the screw, it engages the slots on the band and pulls it tighter, creating a firm hold and seal. They're commonly used in plumbing, automotive, water well, HVAC and general hose-to-pipe connections because they're adjustable, reusable, and provide consistent clamping force.



CLAMP SIZE SELECTION GUIDE	
Polyethylene Pipe Size	Clamp Size
1/2"	SAE #08
3/4"	SAE #12
1"	SAE #16
1-1/4"	SAE #20
1-1/2"	SAE #24
2"	SAE #32
3"	SAE #48
4"	SAE #72

**CAUTION:** To be used as a guide only, the outside diameter of polyethylene pipe may vary between brands and between low (LDPE), medium (MDPE) and high (HDPE) density piping.

CLAMP SELECTION GUIDE	
Clamp Series	Corrosion Resistance
2-SSC87 & SSC87	Best
2-SSC77 & SSC77	Better
2-SSC67 & SSC67	Good

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# SSC SERIES STAINLESS STEEL CLAMPS

## APPLICATIONS/ FEATURES:

- **SSC67xx series** clamps offer no nickel content and can't be used where non-magnetic material is required. Suitable for plumbing in areas where corrosion is only a low to moderate risk, like garden or irrigation hoses. In any doubt upgrade your selection to the SSC87 series.
- **SSC77xx series** clamps combine the high nickel content stainless steel and plating of the carbon screw, allowing this clamp to be used in above ground outdoor and indoor applications where corrosion is not a significant issue, such as dryer vents. This clamp can be used for all standard clamp applications.
- **SSC87xx series** of marine grade clamps contains a high nickel content providing strong corrosion resistance for buried waterlines and well pump installation, and is suitable for outdoor use with no shielding.

## SPECIFICATIONS:

- \*\*Dimensions and threads conform to SAE J1670 Type F
- Materials conform to AISI grades
- Stainless Steel Band & Housing
- Hex Screw with deep slots for quick installation
- Band in 300 series Stainless Steel with perforations for smoother worm-drive operation
- Standard clamps offer a four-piece design for strength and stability

## PACKAGING:

- SSCxxxx clamps, such as SSC8720, are packaged in bags of 10
- SSCXxxxx clamps, such as SSCX8720, are packaged in boxes
- SSCBxxxx clamps, such as SSCB8720, are packaged in bulk

MADE   
in the   
USA 



**User Responsibility Statement:** It is the user's sole responsibility to determine the product's suitability for its intended use. For full details, visit Boshart Industries [Reference Documents](#) for our User Safety Responsibility Statement and other important documents.

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SSCxxxx clamps, packaged in bags



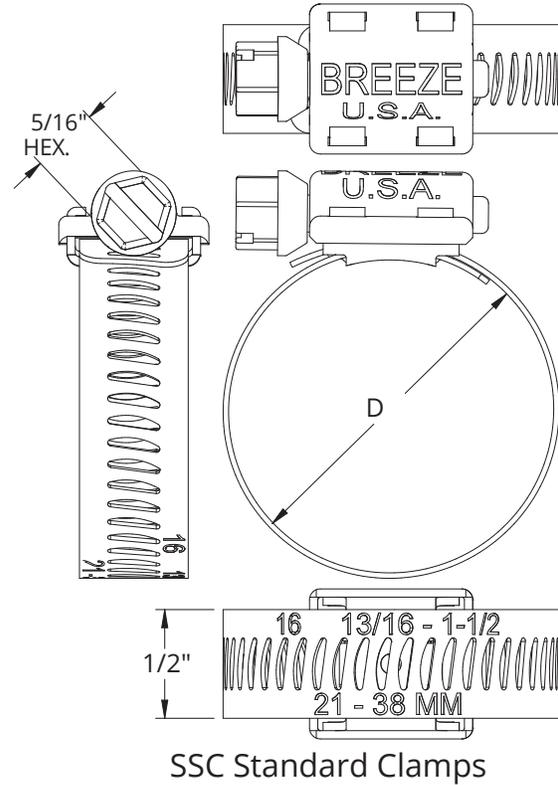
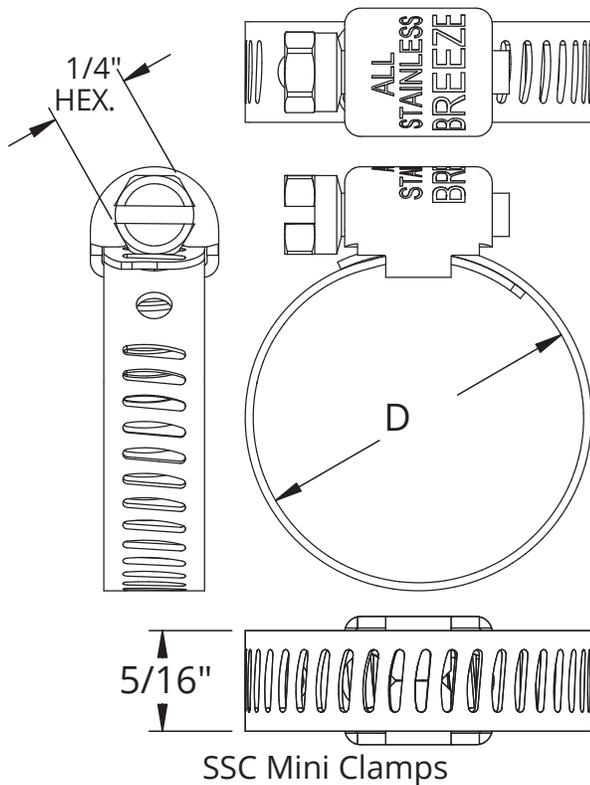
SSCxxxx clamps, packaged in boxes



SSCBxxxx clamps, packaged in bulk

MATERIAL			
Component	SSC77xxxx	SSC67xxxx	SSC87xxxx
Band	Stainless Steel -301 Series	Stainless Steel -301 Series	Stainless Steel -301 Series
Housing	Stainless Steel -301 Series	Stainless Steel -301 Series	Stainless Steel -301 Series
Screw	Zinc Plated Carbon Steel	Stainless Steel -410 Series	Stainless Steel -305 Series

SSC67 and SSC77 series are not recommended for direct burial or any corrosive environments such as down a well.



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BREEZE® Power-seal® clamps							SSC77	SSC67	SSC87
Size	Screw Head	Band Width	A (Closed)		A (Open)		300 Grade Stainless Steel Band & Housing / Zinc plated steel screw	300 Grade Stainless Steel Band & Housing/ 410 SS screw	PREMIUM All 300 Stainless Steel Band, Housing & Screw
			in	mm	in	mm			
Mini/Narrow Band Clamps, Three-piece design									
4	1/4"	5/16"	7/32	5.6	5/8	16	SSC7704	SSC6704	SSC8704
5	1/4"	5/16"	5/16	8	11/16	17	SSC7705	SSC6705	SSC8705
Standard Clamps, Four-piece design									
6	5/16"	1/2"	7/16	11	25/32	20	SSC7706	SSC6706	**SSC8706
8	5/16"	1/2"	1/2	13	29/32	23	SSC7708	SSC6708	**SSC8708
10	5/16"	1/2"	9/16	14	1-1/16	27	SSC7710	SSC6710	**SSC8710
12	5/16"	1/2"	11/16	17	1-1/4	32	SSC7712	SSC6712	**SSC8712
16	5/16"	1/2"	13/16	21	1-1/2	38	SSC7716	SSC6716	**SSC8716
20	5/16"	1/2"	13/16	21	1-3/4	44	SSC7720	SSC6720	**SSC8720
24	5/16"	1/2"	1-1/16	27	2	51	SSC7724	SSC6724	**SSC8724
28	5/16"	1/2"	1-5/16	33	2-1/4	57	SSC7728	SSC6728	**SSC8728
32	5/16"	1/2"	1-9/16	40	2-1/2	64	SSC7732	SSC6732	**SSC8732
36	5/16"	1/2"	1-13/16	46	2-3/4	70	SSC7736	SSC6736	**SSC8736
40	5/16"	1/2"	2-1/16	52	3	76	SSC7740	SSC6740	**SSC8740
44	5/16"	1/2"	2-5/16	59	3-1/4	83	SSC7744	SSC6744	**SSC8744
48	5/16"	1/2"	2-9/16	65	3-1/2	89	SSC7748	SSC6748	**SSC8748
52	5/16"	1/2"	2-13/16	71	3-3/4	95	SSC7752	SSC6752	**SSC8752
56	5/16"	1/2"	3-1/16	78	4	102	SSC7756	SSC6756	**SSC8756
60	5/16"	1/2"	3-5/16	84	4-1/4	108	N/A	SSC6760	**SSC8760
64	5/16"	1/2"	3-9/16	91	4-1/2	114	SSC7764	SSC6764	**SSC8764
72	5/16"	1/2"	1-7/8	48	5	127	SSC7772	SSC6772	**SSC8772
80	5/16"	1/2"	2-1/2	64	5-1/2	140	SSC7780	SSC6780	**SSC8780
88	5/16"	1/2"	3-1/8	79	6	152	SSC7788	SSC6788	**SSC8788
96	5/16"	1/2"	3-5/8	92	6-1/2	165	SSC7796	SSC6796	**SSC8796
104	5/16"	1/2"	4-1/8	105	7	178	SSC77104	SSC67104	**SSC87104
128	5/16"	1/2"	5-5/8	143	8-1/2	216	SSC77128	SSC67128	SSC87128
152	5/16"	1/2"	7-1/8	181	10	254	SSC77152	SSC67152	SSC87152
188	5/16"	1/2"	9-3/8	238	12-1/4	311	SSC77188	SSC67188	SSC87188
212	5/16"	1/2"	10-7/8	276	13-3/4	349	SSC77212	SSC67212	SSC87212
224	5/16"	1/2"	11-5/8	295	14-1/2	368	SSC77224	SSC67224	SSC87224



# How to Install a Worm Gear Clamp

## Tools needed:

- Flat Head screwdriver
  - OR**
  - 1/4" hex-head nut driver for a 5/16" wide narrow band mini clamp
  - 5/16" hex-head nut driver for standard clamps
- you may want to use a 60 in lb slip-clutch T-wrench

## Tools Required

1/4" Nut Driver for #4 & #5 Mini Clamps

5/16" Nut Driver for SAE #6 and Larger Clamps

60 Inch Pound T Handle Torque Driver



## 1. Select the correct type of insert fitting.

Ensure correct fitting type: polyethylene (PE) pipe requires insert fittings compatible with ASTM D2239 Standard. Whereas hose requires insert fittings with a slightly smaller barb diameter. Hose fittings are commonly referred to as king or combination nipples, or hose menders.

## 1. Select the Correct Clamp Size

Using the clamp range chart to select a clamp that will fit the outside diameter of the poly pipe or hose you are using. \*\*To avoid having an excessive tail piece protruding from the housing, select a clamp that is 1/2" over the pipe diameter.

## 2. Prepare the Clamp

If necessary, open the clamp by turning the screw counter clockwise until the band can slide over the pipe or hose.

## 3. Position the Poly Pipe (PE) or Hose

Push the pipe or hose fully onto the fitting.

### Poly Pipe:

Slightly undersized I.D; heat the end (hot water or torch) before installation to make pliable so it can expand when the fitting is inserted.

### Hose:

Pliable material—no heating required. Clamp compresses hose into serrations for a secure seal.

## 4. Position the Clamp

For standard barbed fittings: place clamp 1/4" from the end (up to 1-1/4" fittings) or 3/8" from the end (1-1/2" and larger) (FIG A).

For recessed fittings: center the clamp in the recessed area of the insert fitting that has no barbs (FIG B).

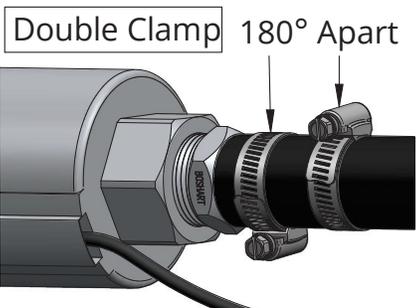
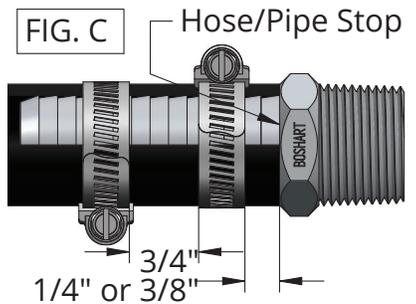
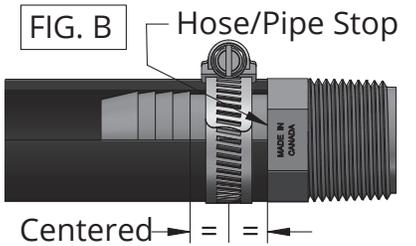
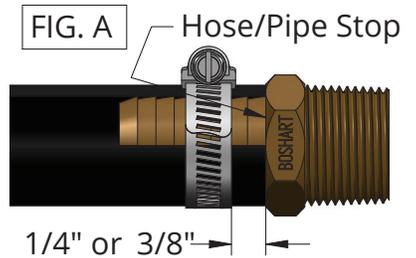
For extra-long inserts: For high-pressure or heavy-load applications **Double Clamping is recommended**, install a second clamp spaced about 3/4" apart. The housing/screw should be oriented at 180° (FIG C).

## 5. Tighten the Clamp

Turn the screw clockwise until snug and ensure a tight, leak-free seal.

• Mini Clamps (#4-#5): 10-12 in·lb (1.1-1.4 Nm)

• Standard Clamps (#6+): 35-45 in·lb (3.96-4.52 Nm) is typically sufficient torque for a water tight seal. **Tips:** Use a torque-limited driver (e.g., "T" nut driver with 60 in·lb (6.78 Nm) slip clutch) to prevent overtightening.



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