



Hose Clamps

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Hose Clamps

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General Information

BREEZE Worm-Drive Clamp Systems

ADVANTAGES OVER OTHER CLAMP SYSTEMS



1. Special Shoulder - The shoulder behind the hex head keeps tools like sockets or nut drivers from jamming into the slots or band-end, making the clamp appear to be tight when it isn't.



2. $\frac{5}{16}$ " Hex Head - The $\frac{5}{16}$ " hex head found on all our clamps provides clearance for open-end wrenches, whereas larger hexes ($\frac{3}{8}$ ", etc.) do not, making wrench tightening difficult if not impossible.



3. Through Slotted - The open slot allows for the use of any size screwdriver. With larger screwdrivers it is easier to tighten the clamp. Slots that are closed at the sides require the use of a small screwdriver.



4. Corrosion Resistant - All clamps are 100% stainless steel. The band, saddle and housing are made from 300 series stainless steel and the screws are made from 410 stainless steel.

5. Finished edge on all bands, this prevents the clamp from damaging the hose.

6. Concave band compared to flat means the clamp seals from the center to the outside which produces uniformed sealing.

7. Arcial Cut Band compared to square cut. For smoother gear action and greater torquing for a stronger band which means less failure and labor savings.

8. Quadru-lock Housing - a housing with no welds to break, higher torque to band providing less cold water leaks and band failures due to stripped or broken clamps.

9. Exceeds by 50% the Quality Control Standards of an AMO MS Mil Spec for worm-drive clamps. These clamps have been used on space shuttles.

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Liner Hose Clamps S.S. R01 & R02



Aero-Seal (R01) Industrial/Aircraft Clamps The Original BREEZE Stainless Steel Worm-Drive Clamp

- Heavy-duty four-piece Quadra-lock construction enables more tightening torque to be delivered to the band perforations.
- Ideal for heavy duty industrial applications.
- All stainless steel
- 120P, 122P, 220P & 222P Assortments Available
- Screw Sizes: #3604-#3608 = 1/4 WAF
QS06-QS72 = 5/16 WAF



IBS No.	Band	Effective Diameter Range				Qty
		Minimum		Maximum		
		inch	mm	inch	mm	
#3604	5/16	7/32	5.6	5/8	16	10
#3606	5/16	7/16	11	25/32	20	10
#3608	5/16	1/2	13	29/32	23	10
QS06	9/16	7/16	11	25/32	20	10
QS08	9/16	1/2	13	29/32	23	10
QS10	9/16	9/16	14	1-1/16	27	10
QS12	9/16	11/16	17	1-1/4	32	10
QS16	9/16	13/16	21	1-1/2	38	10
QS20	9/16	13/16	21	1-3/4	44	10
QS24	9/16	1-1/16	27	2	51	10
QS28	9/16	1-5/16	33	2-1/4	57	10
QS32	9/16	1-9/16	40	2-1/2	64	10
QS36	9/16	1-13/16	46	2-3/4	70	10
QS40	9/16	2-1/16	52	3	76	10
QS44	9/16	2-5/16	59	3-1/4	83	10
QS48	9/16	2-9/16	65	3-1/2	89	10
QS52	9/16	2-13/16	71	3-3/4	95	10
QS56	9/16	3-1/16	78	4	102	10
QS60	9/16	3-5/16	84	4-1/4	108	10
QS64	9/16	3-9/16	91	4-1/2	114	10
QS72	9/16	4-1/8	105	5	127	10

Assortments (Z08) Aero-Seal Clamps

IBS No. 120P
10 Sizes • 100 Pieces
Storage Rack Included

IBS No. 125P
10 Sizes • 50 Pieces
Storage Rack Included



AERO-SEAL CLAMPS ASSORTMENT

IBS No.	Size Range
#3604	7/32" to 5/8"
#3608	1/2" to 29/32"
QS06	7/16" to 25/32"
QS10	9/16" to 1-1/16
QS12	11/16" to 1-1/4"
QS16	13/16" to 1-1/2"
QS20	13/16" to 1-3/4"
QS28	1-5/16" to 2-1/4"
QS32	1-9/16" to 2-1/2"
QS36	1-13/16" to 2-3/4"

Aero-Seal Clamps

IBS No. 220P
5 Sizes • 50 Pieces

IBS No. 225P
5 Sizes • 25 Pieces

LARGE AERO-SEAL CLAMPS ASSORTMENT

IBS No.	Size Range
QS40	2-1/16" to 3"
QS48	2-9/16" to 3-1/2"
QS52	2-13/16" to 3-3/4"
QS56	3-1/16" to 4"
QS72	1-7/8" to 5"

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Liner Hose Clamps S.S. R01 & R02

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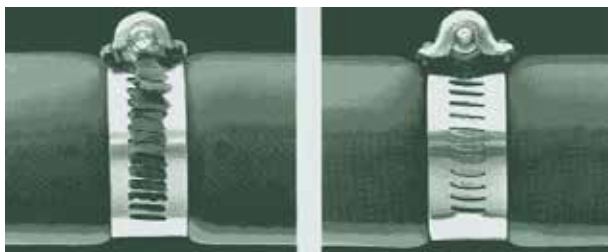
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BREEZE Liner Clamps for Soft/Silicone Hose (R02)

- Liner band is an integral extension of the band.
- Liner is not riveted or welded.
- Protects silicone and other soft surface hose from damage caused by extrusion or shearing through the band slots.
- Liner clamps are designed to give a true concentric seal.
- All stainless steel.
- 120LP & 220LP Assortments Available.
- Screw Size: 5/16 WAF



IBS No.	Band	Effective Diameter Range				Qty
		Minimum		Maximum		
		inch	mm	inch	mm	
#9406	9/16	7/16	11	25/32	20	10
#9408	9/16	1/2	13	29/32	23	10
#9410	9/16	9/16	14	1-1/16	27	10
#9412	9/16	11/16	17	1-1/4	32	10
#9416	9/16	13/16	21	1-1/2	38	10
#9420	9/16	13/16	21	1-3/4	44	10
#9424	9/16	1-1/16	27	2	51	10
#9428	9/16	1-5/16	33	2-1/4	57	10
#9432	9/16	1-9/16	40	2-1/2	64	10
#9436	9/16	1-13/16	46	2-3/4	70	10
#9440	9/16	2-1/16	52	3	76	10
#9444	9/16	2-5/16	59	3-1/4	83	10
#9448	9/16	2-9/16	65	3-1/2	89	10



Without Liner

With Liner

Large Size Hose Clamp Assortments (Z08)

Liner Clamps

IBS No. 120LP
10 Sizes • 100 Pieces
Storage Rack Included



LINER CLAMPS ASSORTMENT

IBS No.	Size Range
#9406	7/16" to 25/32"
#9408	1/2" to 29/32"
#9410	9/16" to 1-1/16"
#9412	11/16" to 1-1/4"
#9416	13/16" to 1-1/2"
#9420	13/16" to 1-3/4"
#9424	1-1/16" to 2"
#9428	1-5/16" to 2-1/4"
#9432	1-9/16" to 2-1/2"
#9436	1-13/16" to 2-3/4"

Liner Clamps

IBS No. 220LP
5 Sizes • 35 Pieces

LARGE LINER CLAMPS ASSORTMENT

IBS No.	Size Range
#9440	2-1/16" to 3"
#9448	2-9/16" to 3-1/2"
HTM-350L	2-3/4" to 3-5/8"
HTM-400L	3-1/4" to 4-1/8"
HTM-500L	4-1/4" to 5-1/8"



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Constant Torque Liner Clamps R04



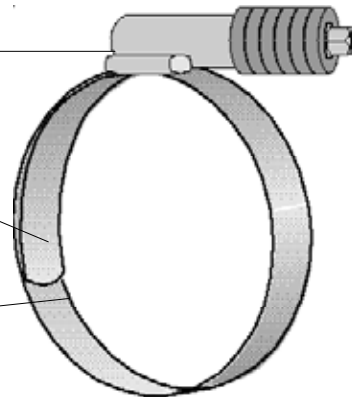
BREEZE Constant Torque Liner Clamps

ACTIVE PRESSURE-COMPENSATING CLAMPS

Housing orbitally riveted to saddle at 4 points provides extra strength.

Liner protects soft or silicone hose from damage, extrusion, or shear.

Full $\frac{3}{8}$ " band width provides greater sealing surface.



Energy stored in compressed Belleville springs controls automatic clamp adjustment.

Eight screw threads (instead of 3 or 4 found in other clamps) are engaged at all times for high torquing drive and vibration resistance.

This revolutionary clamp reacts to contracting and expanding hose systems by decreasing or increasing its own diameter in response to system changes.

Virtually all rubber hose compresses ("cold flow") after a clamping device is installed. This results in an 80% or greater torque loss almost immediately following installation. Also, virtually all metal connections will expand as the system heats up and then contract as the system cools back down. Most other clamping systems (conventional worm gear, "T" bolt, etc.) are passive systems, which means that expansion and contraction of system components can not be adjusted for without retightening or loosening the clamps. The constant torque clamping system is an "active" clamping system, which means that it monitors the system and then makes compensations for the changes by changing its diameter through a unique worm gear Belleville spring assembly.

Constant Torque Liner Clamps are ideal for:

- sealed systems which cannot be retightened
- systems where clamps are difficult to reach
- applications which require high torque
- large diameter applications
- systems that experience extremes of heat or cold
- systems which expand or contract.

Constant Torque Liner Clamps are designed for torque compensation at installation torques from 50 to 150 in-lbs and all parts are made of stainless steel.

Assembly Instructions

To properly install a Constant Torque Liner Clamp a torque wrench should be used.



MAXIMUM EXPANSION

Clamps should be installed at 50 in-lbs of torque. Screw tip should slightly protrude from housing.

EQUAL EXPANSION OR CONTRACTION

Clamps should be installed at 90 in-lbs. of torque. Screw tip protrudes from housing and Belleville springs are compressed.

MAXIMUM CONTRACTION

Clamps should be installed at 125 in-lbs of torque. Screw tip extends well beyond housing and Belleville springs are compressed to about 90% of flat.

IBS No.	Effective Diameter Range				Qty
	Minimum inch	Minimum mm	Maximum inch	Maximum mm	
CT175L	1	25	1-3/4	44	5
CT250L	1-3/4	45	2-5/8	67	5
CT300L	2-1/4	57	3-1/8	79	5
CT350L	2-3/4	70	3-5/8	92	5
CT400L	3-1/4	83	4-1/8	105	5
CT450L	3-3/4	95	4-5/8	118	5

Screw Size: 3/8 WAF



IBS, INCORPORATED

High Torque Liner Clamps R05 & R03

Breeze High Torque Liner Clamps (R05)

Guaranteed to Withstand more than 3X the SAE Standard Torque Requirements for Worm Drive Clamps

An industrial strength worm-drive stainless steel clamp which is bigger, heavier, and stronger than the "Aero-Seal" clamp.

- All components made of stainless steel.
- Heavy gauge housing orbitally riveted to saddle.
- Designed so that 8 screw threads are simultaneously engaged in the band for increased torquing drive, sealing pressure and vibration resistance.
- Liner band extends underneath drive slots to protect silicone and other soft hose from damage or extrusion.
- Eliminates double clamping and "T" bolts.
- 150 in-lbs. of torque on the screw.
- 220LP Assortment available.
- Screw Size: 5/16 WAF



IBS No.	Effective Diameter Range				Qty
	Minimum		Maximum		
	inch	mm	inch	mm	
HTM-175L	1	25	1-3/4	45	5
HTM-200L	1-1/4	32	2-1/8	54	5
HTM-250L	1-3/4	45	2-5/8	67	5
HTM-300L	2-1/4	57	3-1/8	79	5
HTM-350L	2-3/4	70	3-5/8	92	5
HTM-400L	3-1/4	83	4-1/8	105	5
HTM-450L	3-3/4	95	4-5/8	118	5
HTM-500L	4-1/4	108	5-1/8	130	5
HTM-600L	5-1/4	133	6-1/8	156	5
HTM-650L	5-3/4	146	6-5/8	168	5
HTM-700L	6-1/4	159	7-1/8	181	5
HTM-800L	7-1/4	184	8-1/8	206	5
HTM-900L	8-1/4	210	9-1/8	232	5

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T-Bolt & Make-A- Clamp R01 & R03



T-Bolt Clamps (R01)

SAE Standard J1508 Type "TB"

- 300 Series stainless steel band; plated steel T-Bolt and locknut.
- Superior welded construction.
- Meets SAE Specification J1508.
- For industrial, automotive and fleet applications.
- Recommended torque: 75 in./lbs.
- 3/4" (19 mm) band for superior coverage.
- Floating bridge for equalized clamp load.
- Hex Size: 7/16 WAF



IBS No.	SAE Size	Effective Diameter Range				Qty
		Minimum		Maximum		
		inch	mm	inch	mm	
60175	28	1.75	44.5	2.00	50.8	5
60200	36	2.00	50.8	2.31	58.7	5
60225	44	2.25	57.2	2.56	65.1	5
60250	52	2.50	63.5	2.8	71.4	5
60275	60	2.75	69.9	3.06	77.8	5
60300	68	3.00	76.2	3.31	84.1	5
60325	76	3.25	82.6	3.56	90.5	5
60350	84	3.50	88.9	3.81	96.8	5
60375	92	3.75	95.3	4.06	103.2	5
60400	100	4.00	101.6	4.31	109.5	5
60425	108	4.25	108.0	4.56	115.9	5
60450	116	4.50	114.3	4.81	122.2	5
60475	124	4.75	120.7	5.06	128.6	5
60500	132	5.00	127.0	5.31	134.9	3
60525	140	5.25	133.4	5.56	141.3	3
60550	148	5.50	139.7	5.81	147.6	3
60575	156	5.75	146.1	6.06	154.0	3
60600	164	6.00	152.4	6.31	160.3	3
60625	172	6.25	158.8	6.56	166.7	3
60650	180	6.50	165.1	6.81	173.0	3
60675	188	6.75	171.5	7.6	179.4	3
60700	196	7.00	177.8	7.31	185.7	1
60725	204	7.25	184.2	7.56	192.1	1
60750	212	7.50	190.5	7.81	198.4	1
60775	220	7.75	196.9	8.06	204.8	1

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Band-It Center Punch Clamps R07

HOSE CLAMPS

Center Punch Galvanized Band-It Clamps

Band style clamps are an effective way of retaining hose couplings in industrial hose (often used for hose repair and assembly). While there are a number of preferred clamping systems available, the Center Punch Clamp is the most economical and popular for its ease of use.

- Locks with impact from a hammer using a conical punch.
- Double wrapped using galvanized carbon steel.
- Not recommended for use with fittings that may crack as a result of impact.
- Install Center Punch clamping systems with Center Punch Band-It Clamp Light Duty Hand Tool (IBS No. 60150)



CENTER PUNCH GALVANIZED BAND-IT CLAMPS

IBS No.	Width		Inside Diam.		Qty
	inch	mm	inch	mm	
60151	3/8	9.6	13/16	20	10
60152	3/8	9.6	1-3/8	35	10
60153	5/8	15.9	1	25	10
60154	5/8	15.9	1-1/4	32	10
60155	5/8	15.9	1-1/2	38	10
60156	5/8	15.9	1-3/4	44	10
60157	5/8	15.9	2	51	10
60158	5/8	15.9	2-1/4	57	10
60159	5/8	15.9	2-1/2	64	10
60160	5/8	15.9	2-3/4	70	10
60161	5/8	15.9	3	76	10
60162	5/8	15.9	3-1/2	89	10
60163	5/8	15.9	4	102	5
60164	5/8	15.9	4-1/2	114	5
60165	5/8	15.9	5	127	5
60166	5/8	15.9	6	152	5

Band-It Clamps

IBS No. 122P
10 Sizes • 50 Pieces
Storage Rack Included



IBS No.	Effective Diameter Range			
	Minimum		Maximum	
	inch	mm	inch	mm
60151	3/8	9.6	13/16	20
60152	3/8	9.6	1-3/8	35
60153	5/8	15.9	1	25
60154	5/8	15.9	1-1/4	32
60155	5/8	15.9	1-1/2	38
60156	5/8	15.9	1-3/4	44
60157	5/8	15.9	2	51
60158	5/8	15.9	2-1/4	57
60159	5/8	15.9	2-1/2	64
60160	5/8	15.9	2-3/4	70

Band-It Clamps

IBS No. 222P
5 Sizes • 25 Pieces
Storage Rack Included



IBS No.	Effective Diameter Range			
	Minimum		Maximum	
	inch	mm	inch	mm
60161	5/8	15.9	3	76
60162	5/8	15.9	3-1/2	89
60163	5/8	15.9	4	102
60164	5/8	15.9	4-1/2	114
60165	5/8	15.9	5	127





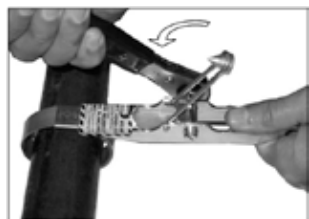
**CENTER PUNCH BAND-IT CLAMP
LIGHT DUTY HAND TOOL**

IBS No.	Description	Qty
60150	Center Punch Band-It Clamp Light Duty Hand Tool	1

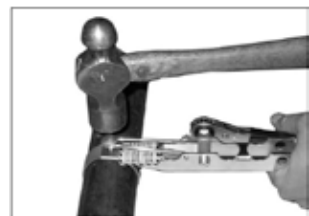
BAND-IT Center Punch Clamps Light Duty Hand Tool Instructions



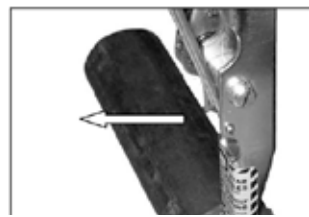
1. Tool is designed specifically for 3/8" and 5/8" center punch clamps only. Insert clamp in tool and then insert wrench assembly. If you prefer, install wrench assembly before clamp is inserted. Slot must be aligned with clamp tail.



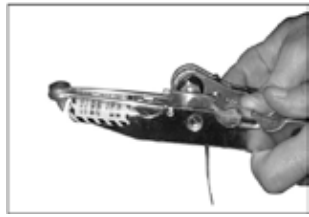
2. Start "pumping ratchet wrench forward until proper tension has been applied.



3. Place punch on clamp and while holding tension with ratchet wrench, lock clamp by striking punch once or more with hammer, depending on object being clamped.



4. While holding tension with wrench, pivot tool up against buckle, then backward several times to break off clamp tail.



5. To loosen clamp tail, wind ratchet wrench until tail is free. Remove ratchet wrench assembly and clamp tail.

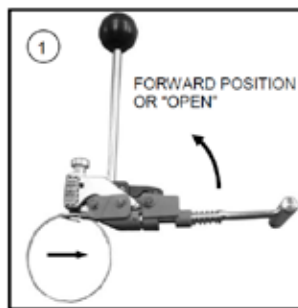
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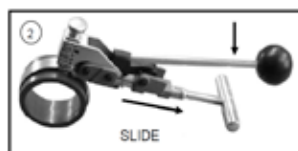
**CENTER PUNCH BAND-IT CLAMP
HEAVY DUTY HAND TOOL**

IBS No.	Description	Qty
60149	Center Punch Band-It Clamp T300 Heavy Duty Hand Tool	1

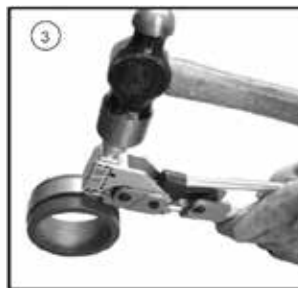
BAND-IT Center Punch Clamps Heavy Duty Hand Tool Instructions



1. Push tension handle all the way forward. Insert BAND-IT Center punch clamp tail and push all the way into tool.



2. Tighten the clamp with short downward strokes. Tension handle should be in down position at completion of tightening clamp.



3. Holding tension down, lock clamp by hitting punch at least twice with a 2 lb. mallet.



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

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IBS, INCORPORATED

Two-Ear Hose Clamps R08

Two Ear Hose Clamps

Two-Ear Hose Clamps (aka Oetiker Clamps) are widely used in maintenance as well as OEM applications.

- One-piece design offers a positive, tamper-proof seal without damaging the hose.
- Assures adequate closure and compensates for tolerance variations in hose sizes.
- Ideal for industrial use and heavily vibrating equipment.
- Suitable for low and medium pressure hydraulic air, fluid, gas and stem lines.
- Easy to apply — slide on and crimp.
- Zinc plated steel.



TWO-EAR HOSE CLAMPS

IBS No.	Size	Ref No.	Effective Diameter Range				Qty
			mm		inches		
			Closed	Open	Closed	Open	
60041	5/32	41	3.1	4.1	.122	.161	5
60305	3/16	50	3.4	5.0	.134	.197	5
60507	1/4	70	5.0	7.0	.197	.276	5
60709	5/16	90	7.0	9.0	.276	.354	5
60811	3/8	110	8.1	11.0	.319	.433	5
61113	1/2	130	10.8	13.0	.425	.512	5
61315	9/16	150	12.5	15.0	.492	.591	5
61518	5/8	180	15.0	18.0	.591	.709	5
61720	3/4	200	16.2	20.0	.638	.787	5
62023	7/8	230	19.0	23.0	.748	.906	5
62327	1	270	22.5	27.0	.886	1.063	5
62831	1-1/8	310	27.0	31.0	1.063	1.220	5
63134	1-5/16	340	29.3	34.0	1.154	1.339	5
63437	1-7/16	370	32.0	37.0	1.260	1.457	5
63740	1-1/2	400	35.0	40.0	1.378	1.575	5

Two Ear Hose Clamp Assortment (Z02)

IBS No. 756R • 16 Items • 76 Tools

Two-Ear Hose Clamps

Assortment No. 756R

<p>60041 5/32 TWO-EAR CLAMP .122-.161</p>	<p>60305 3/16 TWO-EAR CLAMP .134-.197</p>	<p>60507 1/4 TWO-EAR CLAMP .197-.276</p>	<p>60709 5/16 TWO-EAR CLAMP .276-.354</p>	<p>60811 3/8 TWO-EAR CLAMP .319-.433</p>	
<p>61113 1/2 TWO-EAR CLAMP .425-.512</p>	<p>61315 9/16 TWO-EAR CLAMP .492-.591</p>	<p>61518 5/8 TWO-EAR CLAMP .591-.709</p>	<p>61720 3/4 TWO-EAR CLAMP .638-.787</p>	<p>62023 7/8 TWO-EAR CLAMP .748-.906</p>	
<p>62327 1" TWO-EAR CLAMP.886-1.063</p>	<p>62831 1-1/8 TWO-EAR CLAMP</p>	<p>63134 1-5/16 TWO-EAR CLAMP</p>	<p>63437 1-7/16 TWO-EAR CLAMP</p>	<p>63740 1-1/2 TWO-EAR CLAMP</p>	





Ear Clamp Jaw Pincers (T03)

Ear Clamp Jaw Pincers are applied to the ears and closed with sufficient force to draw the lower radii together to a position where component compression is evident and the clamp ear assumes a symmetrical "omega" shaped formation.

- Sturdy construction.
- Cushion grips for better handling.
- Versatile tool — can install and remove pinch clamps.
- Easy to handle.



EAR CLAMP STANDARD JAW PINCERS

IBS No.	Description	Qty
61098	Ear Clamp Standard Jaw Pincers	1



EAR CLAMP SIDE JAW PINCERS

IBS No.	Description	Qty
61099	Ear Clamp Side Jaw Pincers	1

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IBS, INCORPORATED

Economy Hose Clamps R06

Economy Clamps

Ideal 67-1 Series

- 1/2" band clamps are suitable for most common home and automotive applications.
- Screw: 5/16" hex head (Mini #67004 & #67008 1/4" hex head), 410 stainless steel. Band & housing: 1/2" design, 201/301 stainless steel



**ECONOMY CLAMPS
IDEAL 67-1 SERIES**

IBS No.	Clamp No.	Effective Diameter Range				Qty
		Minimum		Maximum		
		inch	mm	inch	mm	

MINI AUTOMOTIVE HOSE CLAMPS

67004	#04	1/4	6	5/8	16	10
67008	#06	5/16	8	7/8	22	10

REGULAR AUTOMOTIVE HOSE CLAMPS

6706	#06	3/8	10	7/8	22	10
6710	#10	1/2	13	1-1/16	27	10
6712	#12	1/2	13	1-1/4	32	10
6716	#16	11/16	18	1-1/2	38	10
6720	#20	3/4	19	1-3/4	44	10
6724	#24	1	25	2	51	10
6728	#28	1-1/4	32	2-1/4	57	10
6732	#32	1-1/2	38	2-1/2	63	10
6736	#36	1-3/4	44	2-3/4	70	10

Economy Clamps Assortment (Z08)

**IBS No. 262R • 10 SIZES • 100
PIECES • STORAGE RACK INCLUDED**



**ECONOMY CLAMPS ASSORTMENT
IDEAL 67-1 SERIES**

IBS No.	Clamp No.	Effective Diameter Range				Qty
		Minimum		Maximum		
		inch	mm	inch	mm	

MINI AUTOMOTIVE HOSE CLAMPS

67004	#04	1/4	6	5/8	16	10
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6716	#16	11/16	18	1-1/2	38	10
6720	#20	3/4	19	1-3/4	44	10
6728	#28	1-1/4	32	2-1/4	57	10
6732	#32	1-1/2	38	2-1/2	63	10
6736	#36	1-3/4	44	2-3/4	70	10

HOSE CLAMPS

