



DRIVEN BY POSSIBILITY™

# HOSE CLAMPS



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Be safe! Do not use Gates belts, pulleys or sprockets on any aircraft propeller or rotor drive systems or in-flight accessory drives. Gates products are not designed or intended for aircraft use.

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## CLAMP SELECTION GUIDE

	SMALL DIAMETER CLAMPS		PERFORATED BAND CLAMPS	T-BOLT CLAMPS			HIGH PERFORMANCE WORM DRIVE CLAMPS	LINED CLAMPS	FLEX GEAR
	62M	62P	67-5	31	32	33	6M	65E	47
<b>AUTOMOTIVE</b>									
Emission Control	•	•							
Fuel Lines	•								
Fuel Injection	•								
Vacuum Tubing		•							
<b>HEAVY-DUTY</b>									
Exhaust					•	•			
Air Duct					•	•	•		•
Radiator Hose					•	•	•		•
Turbo Hose					•	•		•	•
<b>INDUSTRY</b>									
Farm Equipment						•	•		
Off-road Equipment			•			•	•		
General hose piping & tubing				•	•	•			



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# SMALL DIAMETER CLAMPS

## Micro-Gear™ Clamps

Micro-Gear™ clamps are tiny, tough and precision engineered for use in such small hose applications as emission control, fuel lines and vacuum hoses. Their slim, 5/16" (8mm) band and low profile housing make them easy to install in confined areas.

### Ideal 62P Series

- Screw: 1/4" (6mm) hex-head
- Plated carbon steel
- Band and housing: 5/16" (8mm) design
- 201/301 stainless steel



**62P SERIES**

MICRO GEAR CLAMP					CLAMPING RANGE					
SAE SIZES	IDEAL PART NO.	IDEAL PART NO.	BULK PART NO.	BULK PACK QUANTITY	IN.		MM		FITS HOSE I.D.	
					Min.Dia.	Max.Dia.	Min.Dia.	Max.Dia.	Min.Dia.	Max.Dia.
	62P	62M	62M Bulk							
4	6204	62604	62604B	1000	1/4	5/8	6	16	1/8	5/16
5	6205	62605	62605B	1000	1/4	11/16	7	17	1/8	3/8
6	6206	62606	62606B	1000	5/16	7/8	8	22	1/4	7/16
8	6208	62608	62608B	500	3/8	1	10	25	5/16	1/2
10	6210	62610	62610B	500	3/8	1 1/16	10	27	5/16	5/8
12	6212	62612	62612B	500	1/2	1 1/4	13	32	5/8	3/4
16	6216	62616	62616B	500	1/2	1 1/2	13	38	5/8	1

STANDARD PACK SIZE - BOXES OF 10



# 1/2" BAND CLAMPS

1/2" (12mm) band clamps are suitable for most common home and automotive applications.



**67-5 SERIES**

## Ideal 67-5 Series

- Screw: 5/16" (8mm) hex-head
- High-nickel grade stainless steel
- Band and housing: 1/2" (12mm) design
- High-nickel grade stainless steel

1/2" BAND CLAMPS		CLAMPING RANGE					
SAE SIZES	IDEAL PART NO.	IN.		MM		FITS HOSE I.D.	
		Min.Dia.	Max.Dia.	Min.Dia.	Max.Dia.	Min.Dia.	Max.Dia.
	67-5						
6	6706	3/8	7/8	10	22	5/16	3/8
8	6708	7/16	1	11	25	5/16	1/2
10	6710	1/2	1 1/16	13	27	3/8	5/8
12	6712	1/2	1 1/4	13	32	3/8	3/4
16	6716	11/16	1 1/2	18	38	3/4	7/8
20	6720	3/4	1 3/4	19	44	3/4	1 1/8
24	6724	1	2	25	51	7/8	1 3/8
28	6728	1 1/4	2 1/4	32	57	1 1/4	1 5/8
32	6732	1 1/2	2 1/2	38	63	1 1/2	1 7/8
36	6736	1 3/4	2 3/4	44	70	1 3/4	2
40	6740	2	3	51	76	2	2 1/4
44	6744	2 1/4	3 1/4	57	82	2 1/4	2 1/2
48	6748	2 1/2	3 1/2	64	89	2 1/2	2 3/4
52	6752	2 3/4	3 3/4	70	95	2 3/4	3
56	6756	3	4	76	101	3	3 1/2
60	6760	3 1/4	4 1/4	83	108	3 1/4	3 1/2
64	6764	2 1/2	4 1/2	64	114	2 1/2	4
72	6772	3	5	76	127	3	4 1/2
80	6780	3 1/2	5 1/2	89	140	3 1/2	5
88	6788	4	6	102	152	4	5 1/2
96	6796	4 1/2	6 1/2	114	165	4 1/2	6

STANDARD PACK SIZE - BOXES OF 10

# T-BOLTS

Heavy-duty T-Bolt clamps provide uniform sealing pressure for a positive, reliable seal. Specifically designed for use in the high vibration and large diameter applications common in heavy truck, off-road equipment and industrial machinery. All clamps feature bands with rolled edges, solid trunnions and 12mm hex bolt for quick installation. They are available in all carbon, partial stainless and full stainless construction.

## All Carbon T-Bolts – Ideal 31 Series

Typical applications include truck air intake systems, cold side charge air systems, off-road equipment and industrial machinery. General purpose construction comprising zinc-plated carbon steel with clear chromate finish.

- Band/Bridge: Zinc-plated with clear chromate finish
- Bolt: 12mm hardened steel
- Trunnion: Zinc-plated with clear chromate finish



**31 SERIES**

## Partial Stainless T-Bolts – Ideal 32 Series

Additional corrosion resistant construction featuring stainless steel band. Suitable for all heavy-duty applications, construction equipment and industrial machinery.

- Band/Bridge: AISI 304/430 stainless steel
- Bolt: 12mm hardened steel
- Trunnion: Zinc-plated with clear chroma finish



**32 SERIES**

## Full Stainless T-Bolts – Ideal 33 Series

Full 304 stainless construction suitable for marine applications. Increased corrosion resistance for prolonged exposure to moisture and extreme environments.

- Band/Bridge: 304 stainless steel
- Bolt: 12mm stainless steel
- Trunnion: 304 stainless steel



**33 SERIES**

T-BOLT CLAMPS			CLAMPING RANGE			
IDEAL PART NO.	IDEAL PART NO.	IDEAL PART NO.	MIN. DIA. (MM)	MAX. DIA. (MM)	BAND WIDTH (MM)	BAND THICKNESS (MM)
31	32	33				
3123	3223	3323	23	25	18	0.6
3126	3226	3326	26	28	18	0.6
3129	3229	3329	29	31	20	0.6
3132	3232	3332	32	35	20	0.6
3136	3236	3336	36	39	20	0.6
3140	3240	3340	40	43	20	0.6
3144	3244	3344	44	47	22	0.8
3148	3248	3348	48	51	22	0.8
3152	3252	3352	52	55	22	0.8
3156	3256	3356	56	59	22	0.8
3160	3260	3360	60	63	22	0.8
3164	3264	3364	64	67	22	0.8
3168	3268	3368	68	73	24	0.8
3174	3274	3374	74	79	24	0.8
3180	3280	3380	80	85	24	0.8
3186	3286	3386	86	91	24	0.8
3192	3292	3392	92	97	24	0.8
3198	3298	3398	98	103	24	0.8
31104	32104	33104	104	112	24	0.8
31113	32113	33113	113	121	24	0.8
31122	32122	33122	122	130	24	0.8
31131	32131	33131	131	139	26	1.0
31140	32140	33140	140	148	26	1.0
31149	32149	33149	149	161	26	1.0
31162	32162	33162	162	174	26	1.0
31175	32175	33175	175	187	26	1.0
31188	32188	33188	188	200	26	1.0
31201	32201	33201	201	213	26	1.0
31214	32214	33214	214	226	26	1.0
31227	32227	33227	227	239	26	1.0
31240	32240	33240	240	252	26	1.0
31253	32253	33253	253	265	26	1.0
31266	32266	33266	266	278	26	1.0
31279	32279	33279	279	291	26	1.0
31292	32292	33292	292	304	26	1.0

PACKAGED IN BOXES OF 10

## Spring Loaded T-Bolts – 30030 Series

The helical spring design provides the self-compensating (constant tension) feature that prevents the development of leak paths due to temperature fluctuations. Typical applications include heavy truck charge air and cooling systems.

- Band/Bridge: 3/4" width, 201/301 stainless steel
- Bolt: 1/4"-28 plated steel. Spring: Plated steel
- Nut: 7/16" hex, nylon insert, plated steel locknut
- Trunnion: Plated steel
- Covers clamping ranges from 3 1/16" to 4 9/16"



3033 SERIES

SPRING LOADED T-BOLTS						
SAE SIZES	SPRING LOADED T-BOLT IDEAL PART NO.	Min.Dia. (IN.)	Max.Dia. (IN.)	Min.Dia. (MM)	Max.Dia. (MM)	Installation Torque
70	30306	3 1/16	3 3/8	77.8	85.7	75.0 in. lbs. (8.5 Nm)
86	30356	3 9/16	3 7/8	90.5	98.4	75.0 in. lbs. (8.5 Nm)
102	30406	4 1/16	4 3/8	103.2	111.1	75.0 in. lbs. (8.5 Nm)
118	30456	4 9/16	4 7/8	115.9	123.8	75.0 in. lbs. (8.5 Nm)

# LINED CLAMPS



Lined clamps are specially designed for use with silicone rubber and other soft hose applications. The liner protects the hose surface and prevents it from extruding or shearing through the band notches as the clamp is tightened.

## Ideal 65E Series

- Screw: 5/16" hex-head
- High-nickel grade stainless steel
- Band, liner and housing: 9/16"(14mm)
- High-nickel grade stainless steel

LINED CLAMPS		CLAMPING RANGE					
SAE SIZES	IDEAL PART NO.	IN.		MM		FITS HOSE I.D.	
		Min.Dia.	Max.Dia.	Min.Dia.	Max.Dia.	Min.Dia.	Max.Dia.
	65E						
6	6506E	5/8	7 <sup>7</sup> / <sub>8</sub>	16	22	-	3/8
8	6508E	5/8	1	16	25	-	1/2
10	6510E	3/4	1 1/16	19	27	-	5/8
12	6512E	7/8	1 1/4	22	32	-	3/4
16	6516E	1	1 1/2	26	38	3/4	1
20	6520E	1 1/8	1 3/4	29	44	7/8	1 1/4
24	6524E	1 1/4	2	32	51	1	1 1/2
28	6528E	1 5/16	2 1/4	33	57	1 1/8	1 3/4
32	6532E	1 9/16	2 1/2	40	63	1 1/4	2
36	6536E	1 13/16	2 3/4	46	70	1 1/2	2 1/4
40	6540E	2 1/16	3	52	76	1 3/4	2 1/2
44	6544E	2 5/16	3 1/4	59	82	2 1/8	2 3/4
48	6548E	2 9/16	3 1/2	65	89	2 1/4	3
52	6552E	2 13/16	3 3/4	72	95	2 1/2	3 1/4
56	6556E	3 1/16	4	78	101	2 3/4	3 1/2
60	6560E	3 5/16	4 1/4	84	108	3 1/8	3 3/4
64	6564E	3 9/16	4 1/2	91	114	3 1/4	4
72	6572E	4 1/16	5	103	127	3 3/4	4 1/2

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Hose installed with unlined clamp



Hose installed with lined clamp

# HIGH PERFORMANCE WORM DRIVE CLAMPS

Premium POW'R-GEAR™ clamps are designed for high vibration and stubborn leakage applications such as industrial machinery, heavy truck, farm and off-road equipment engines.

Featuring an extra wide 5/8" (6mm) band and a wide profile housing that provides maximum engagement of screw threads to band, POW'R-GEAR™ clamps are engineered to deliver exceptionally high rates of band tension to handle even the toughest sealing jobs.

## Ideal 300 Grade Stainless Steel Lined POW'R-GEAR™ 6M Series

- All 300 grade stainless steel construction
- Screw: 5/16" (8mm) hex-head. 305 stainless steel
- Band Liner: 5/8" (16mm) design. 0.028" (0.7mm) thick. 300 grade stainless steel
- Housing: 0.060" (1.5mm) thick. 300 grade stainless steel



LINED CLAMPS		CLAMPING RANGE					
SAE SIZES	IDEAL PART NO.	IN.		MM		FITS HOSE I.D.	
		Min.Dia.	Max.Dia.	Min.Dia.	Max.Dia.	Min.Dia.	Max.Dia.
175	6M175	1	1 3/4	25	45	7/8	1 1/8
212	6M200	1 1/4	2 1/8	32	54	1	1 1/2
262	6M250	1 3/4	2 5/8	45	66	1 1/2	2
312	6M300	2 1/4	3 1/8	57	79	2	2 1/2
362	6M350	2 3/4	3 5/8	70	92	2 1/2	3
412	6M400	3 1/4	4 1/8	83	105	3	3 1/2
462	6M450	3 3/4	4 5/8	95	117	3 1/2	4
512	6M500	4	5	108	130	4	4 1/2

PACKAGED IN BOXES OF 10



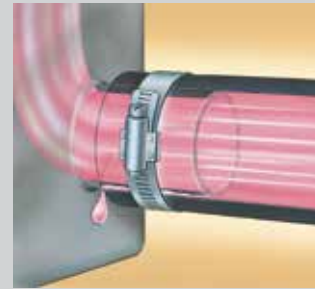
# FLEX-GEAR™ CLAMPS

To eliminate “cold flow” leakage, you have to shut off the leak paths. Flex-Gear™ heavy-duty constant tension clamps provide the self-adjusting band you need for a dependable seal, even in the coldest conditions.

- Larger, heavier-gauge, precision-formed spring washers provide higher rates of band tension and adjustment for a more dependable seal
- Inner liner protects against shearing of hose surfaces
- Provides a uniform 360° seal
- Reusable

## Ideal Flex-Gear™ 47 Series

- Screw: 5/16” (8mm) hex-head
- 410 stainless steel
- Band, liner and housing: 9/16” (14mm) design
- 300 grade stainless steel
- Washers: 300 grade stainless steel



Non-compensating clamp cannot adjust during extreme temperature changes, allowing leaks to occur



Flex-Gear™ adjusts with the hose and fitting to maintain constant tension on the connection, eliminating leak paths

FLEX-GEAR™		CLAMPING RANGE					
SAE SIZES	IDEAL PART NO.	IN.		MM		FITS HOSE I.D.	
		Min.Dia.	Max.Dia.	Min.Dia.	Max.Dia.	Min.Dia.	Max.Dia.
	<b>47</b>						
10	4710	9/16	1 1/16	14	27	3/8	5/8
12	4712	5/8	1 1/4	16	32	3/8	3/4
16	4716	13/16	1 1/2	21	38	3/4	7/8
20	4720	13/16	1 3/4	20	44	3/4	1 1/8
24	4724	1 1/16	2	27	51	7/8	1 3/8
28	4728	1 5/16	2 1/4	33	57	1 1/4	1 5/8
32	4732	1 9/16	2 1/2	40	63	1 1/2	1 7/8
36	4736	1 13/16	2 3/4	46	70	1 3/4	2
40	4740	2 1/16	3	52	76	2	2 1/4
44	4744	2 5/16	3 1/4	59	82	2 1/4	2 1/2
48	4748	2 9/16	3 1/2	65	89	2 1/2	3

PACKAGED IN BOXES OF 10

# POWERGRIP™ SB CLAMPS (SHRINKBAND CLAMPS)

Maintenance-free clamps that retain dynamic tension and never need retightening. These clamps stop leaks, even on out-of-round applications. Clamp down better in all conditions and temperature extremes. Environmentally friendly by eliminating antifreeze leaks and ground water contamination.

- Easy to install with ordinary heat gun
- Wider sealing area entraps connector bead
- Conform to any shape of hose and housing, even out-of-round fittings
- Made from a heat-sensitive thermoplastic with a memory to prevent over- or under-tightening
- Can be used with all brands of silicone hose
- Temperature rating: -40 °C to +150 °C (-40 °F to +302 °F)
- Packaged in boxes of 10



PART NO.	SIZE	NOMINAL HOSE I.D. (IN.)	NOMINAL HOSE I.D. (MM)	FITS HOSE O.D. (IN.)	FITS HOSE O.D. (MM)
32915	SB15	1/4	6	1/2 to 11/16	13 to 17
32919	SB19	3/8	10	11/16 to 13/16	17 to 21
32922	SB22	1/2	13	13/16 to 15/16	21 to 24
32925	SB25	5/8	16	15/16 to 1 1/16	24 to 27
32929	SB29	3/4	19	1 1/16 to 1 3/16	27 to 30
32932	SB32	7/8	22	1 3/16 to 1 5/16	30 to 33
32934	SB34	1	25	1 5/16 to 1 1/2	33 to 38
32941	SB41	1 1/4	32	1 1/2 to 1 3/4	38 to 44
32948	SB48	1 1/2	38	1 3/4 to 2	44 to 51
32954	SB54	1 3/4	44	2 to 2 1/4	51 to 57
32960	SB60	2	51	2 1/4 to 2 1/2	57 to 64
32967	SB67	2 1/4	57	2 1/2 to 2 3/4	64 to 70
32973	SB73	2 1/2	64	2 3/4 to 3	70 to 76
32979	SB79	2 3/4	70	3 to 3 1/4	76 to 83
32986	SB86	3	76	3 1/4 to 3 1/2	83 to 89
32990	SB90	3 1/8	79	3 1/2 to 3 5/8	89 to 92



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FEBRUARY 2019