

## Charge-Air Cooler Accessories

### Hoses

Fleet Air Technologies, Inc. offers a line of high quality hoses specifically designed for today's rigorous conditions. When replacing your charge-air cooler, it is recommended that you replace the old hoses to ensure maximum engine efficiency.

The hoses we offer allow for superior connection, and are ideal for handling slight misalignments and isolating vibration between hose ends.

#### CONVOLUTED CHARGE AIR HOSE - 4 PLY NOMEX® - IRON OXIDE RED

HOT SIDE [500°F (260°C) MAX OPERATING TEMP]

INSIDE DIA.		OUTSIDE DIA.		LENGTH		PART NUMBER	STAINLESS STEEL RINGS	MAX OPERATING PRESSURE	
INCH	mm	INCH	mm	INCH	mm			PSIG	BAR
3	76	3.23	82	6	152	7731	NO	30	2.1
3	76	3.28	82	6	152	7731-0001	YES	60	4.1
3.5	89	3.73	95	6	152	7732	NO	27	1.9
3.5	89	3.73	95	6	152	7732-0001	YES	55	3.8
4	102	4.23	107	6	152	7715-0001	NO	25	1.7
4	102	4.23	107	6	152	7715-0002	YES	50	3.4
4	102	4.23	107	8	203	7727	NO	25	1.7
4	102	4.23	107	8	203	7727-0001	YES	50	3.4
4.5	115	4.73	120	6	152	7742	NO	22	1.5
4.5	115	4.73	120	6	152	7742-0001	YES	45	3.1

Specifications for reference only. Specific test data available on request.

Contact factory for availability of other sizes.

**Hoses Cont'd**

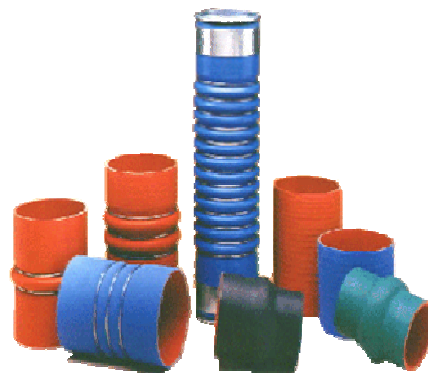
**CONVOLUTED CHARGE AIR HOSE - 3 PLY POLYESTER - BLUE**  
**COLD SIDE [300°F (149°C) MAX OPERATING TEMP]**

INSIDE DIA.		OUTSIDE DIA.		LENGTH		PART NUMBER	STAINLESS STEEL RINGS	MAX OPERATING PRESSURE	
INCH	mm	INCH	mm	INCH	mm			PSIG	BAR
3	76	3.23	82	6	152	7758	NO	30	2.9
3	76	3.28	82	6	152	7758-0001	YES	60	5.8
3.5	89	3.73	95	6	152	7753	NO	27	2.6
3.5	89	3.73	95	6	152	7753-0001	YES	55	5.3
4	102	4.23	107	6	152	7755	NO	25	2.4
4	102	4.23	107	6	152	7755-0002	YES	50	4.8
4.5	115	4.73	120	6	152	7759	NO	22	2.1
4.5	115	4.73	120	6	152	7759-0001	YES	45	4.3

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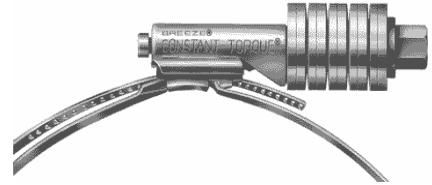


## T-Bolt Clamps

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### Product Description

In our effort to provide you the best products possible, Fleet Air Technologies stocks only high quality constant torque T-bolt style clamps manufactured by Breeze Industrial Products.



### CONSTANT-TORQUE CLAMPING SYSTEM

**Revolutionary clamp that reacts to changes in hose systems by actually increasing and decreasing its own diameter as the system expands or contracts.**

Here is the most significant breakthrough in clamp technology since Breeze originated the worm-drive clamp design.

**Breeze "Constant-Torque" Clamping System is an active pressure-compensating clamp.**

Virtually all rubber hose compresses "cold flow" after installation of a clamping device, resulting in an almost immediate torque loss that can exceed 80% of installation torque. Similarly, virtually all metal connections expand as a system heats up, and then contracts as the system cools. Conventional worm-gear, T-Bolt, and other clamps are passive, in that expansion and contraction of components cannot be compensated for without retightening or loosening the clamps. This Breeze clamping system is an "active" clamp mechanism, which **monitors and then compensates for the temperature changes** by actually changing diameter through a unique worm-gear Belleville assembly

- *Quadra-lock construction - housing orbitally riveted to saddle at 4 points providing extra strength.*
- *Liner protects soft or silicone hose from damage, extrusion or shear.*
- *Eliminates the sometimes necessary replacement of expensive "single use" clamps during routine or emergency maintenance.*
- *Fleet standard - easily installed, easily replaced in the field.*
- *Energy store in compressed Belleville springs controls automatic clamp adjustment.*
- *Torque Check - permits visual assurance that the clamp is properly installed.*
- *Stainless steel -- virtually unlimited product life - won't rust or corrode and is reusable*

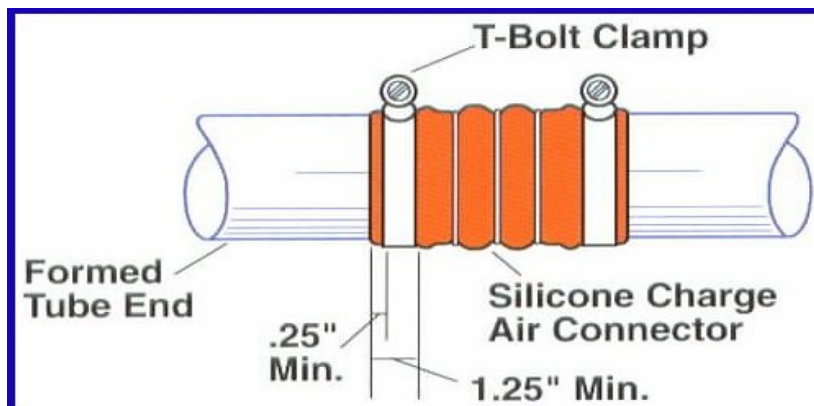
## T-Bolt Clamps *Cont'd*

Heavy-duty construction for use on large diameter applications -- torque rated 90-125 in./lbs.  
 5-8" (16mm) band width.

### EFFECTIVE DIAMETER RANGE

STOCK NUMBERS	Min.		Max.	
	in.	mm.	in.	mm.
B9224-0056B	(1-1/4)	32	(2-1/8)	54
B9224-0106B	(1-3/4)	45	(2-5/8)	67
B9224-0156B	(2-1/4)	57	(3-1/8)	79
B9224-0256B	(2-3/4)	70	(3-5/8)	92
B9224-0206B	(3-1/4)	83	(4-1/8)	105
B9224-0356B	(3-3/4)	95	(4-5/8)	118
B9224-0406B	(4-1/4)	108	(5-1/8)	130
B9924-0456B	(4-3/4)	121	(5-5/8)	143
B9924-0556B	(5-1/4)	133	(6-1/8)	156
B9924-0506B	(5-3/4)	146	(6-5/8)	168
B9924-0656B	(6-1/4)	159	(7-1/8)	181
B9924-0606B	(6-3/4)	172	(7-5/8)	194
B9924-0756B	(7-1/4)	184	(8-1/8)	206
B9924-0806B	(7-3/4)	197	(8-5/8)	219
B9924-0856B	(8-1/4)	210	(9-1/8)	232

### Charge-Air Cooler Hose Clamping Instructions



Use only T-Bolt style clamps.  
 Constant torque T-bolt style clamps may help to retain clamp load.  
 Torque to 70-75 in - lbs.