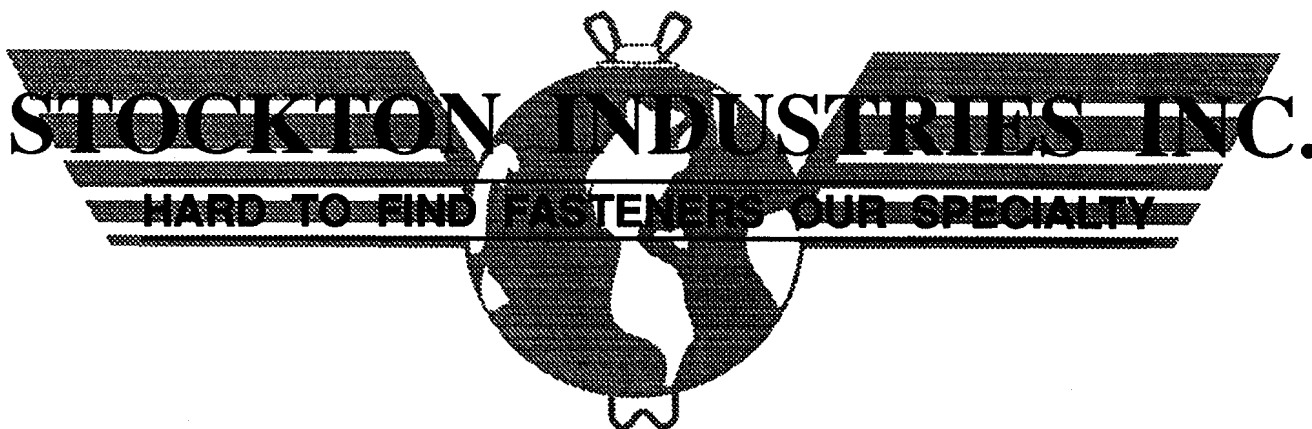


**STANDARD BRASS FITTINGS CREATE
PROBLEMS IN EVERYDAY REPAIR
AND MAINTENANCE:
THEY:**

- HAVE SOME NON-REUSEABLE PARTS
- REQUIRE COSTLY INVENTORY
- WILL NOT SWIVEL
- LEAK FREQUENTLY
- VIBRATE LOOSE

**INSTA-LOCK COMPRESSION FITTINGS CAN
OVERCOME THESE PROBLEMS**



FITTINGS

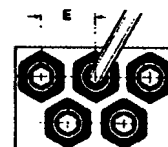
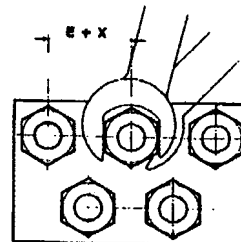
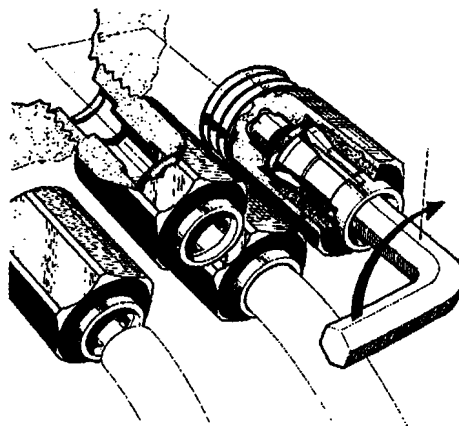
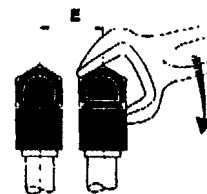
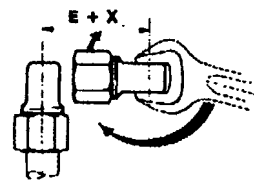
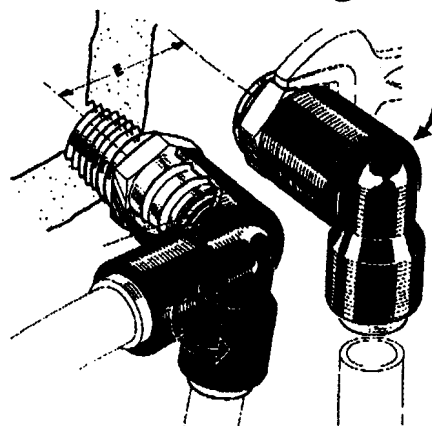
Solution to the Problems of Brass Fittings:

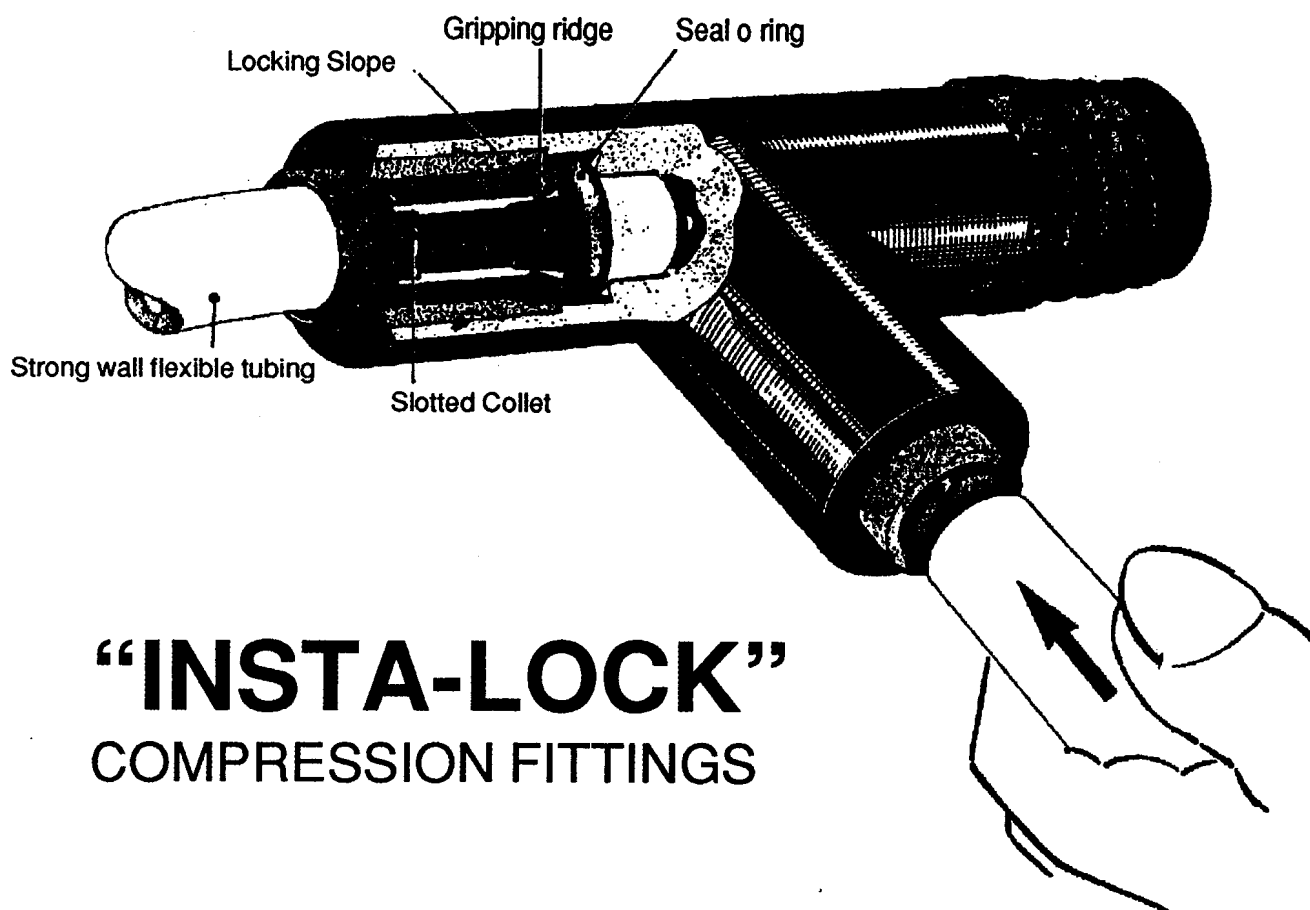
Advantages

- | | |
|---|--|
| INSTANT ASSEMBLY | • Without Tools |
| INSTANT DISCONNECTION | • Simply press in collet |
| MAJOR TIME SAVING | <ul style="list-style-type: none"> • Saves over 75% on average time to make compression joint • Eliminates tightening time • Instant disconnection saving down time during machine maintenance • Speeds trouble shooting • Gives time for more production |
| FULL FLOW | <ul style="list-style-type: none"> • No bore support ferrules required • No tube deformation |
| SPACE SAVING | • See adjacent diagrams |
| EASY ASSEMBLY | <ul style="list-style-type: none"> • All stud tees and elbows can swivel allowing assembly in tight spaces |
| AUTOMATIC TIGHTNESS | • Seals and locks first time |
| ELEGANT APPEARANCE | |
| AVAILABLE FOR METRIC & IMPERIAL TUBE SIZES | |

WORKING SPECIFICATION

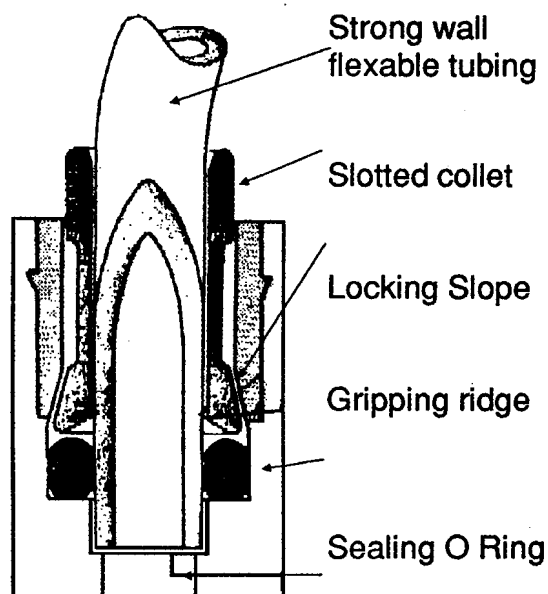
- | | |
|----------------------------------|--|
| WORKING PRESSURE | • Vacuum to 18 Bar |
| WORKING TEMPERATURE | • -150 C to + 700 C |
| MEDIA | <ul style="list-style-type: none"> • Compressed air. For use with other light gases, please contact us |
| TUBING | <ul style="list-style-type: none"> • For use with nylon 11 or 12 and other plastics tubes of sufficient stiffness, such as polyethylene, polypropylene, teflon, A.B.S., thick and hard PVC • For soft plastic tubes or reinforced tubing, use our plug-in barb fitting series 3122 • Nylon tube to CETOP Standards, recommended |
| MATERIALS OF CONSTRUCTION | <ul style="list-style-type: none"> • Brass, hostaform (acetal copolymer) & nitrile rubber |





“INSTA-LOCK”

COMPRESSION FITTINGS



To Assemble:-

Simply push tubing fully into fitting.

The action is as follows:

The Tube passes through the collet and “O” ring up to the tube stop. The Tube is now locked and sealed, If the tube is pulled, the collet is drawn up against the locking slope, preventing removal.

To Remove Tube:-

Simply push in collet and pull tube out

The action is as follows:

When the collet is pushed in, it moves clear of the locking slope, allowing the tube to be pulled free from the gripping edge.

O.E.M. HARDWARE

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"INSTA-LOCK" COMPRESSION FITTINGS

FEATURES:

- Time and labor saving - Can be installed in 25% of time of ordinary fittings
- One-fourth the parts of ordinary brass fittings
- Male elbows and tees can be turned to any direction, once they are tightened, for easy alignment
- Special "O" Ring for positive, virtually leak proof sealing
- Vacuum to - 14 PSI to 250 PSI working pressure

APPLICATIONS:

- Air operated tools and equipment
- Pneumatic and vacuum controls and accessories
- Instrument and gauges
- Pneumatic control panels
- Oil Lines
- Pumps and compressors
- Fuel Lines
- Air logic systems
- Water and coolant lines
- For air Brake Systems *specify* Department of Transportation Approved *Insta-Lock*

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"INSTA-LOCK" COMPRESSION FITTINGS

SHOP APPLICATIONS:

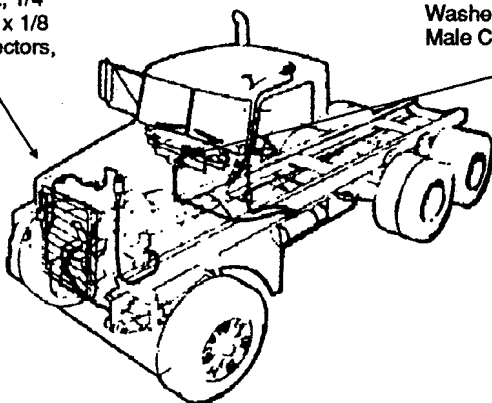
- Air operated tools and equipment
- Water and coolant lines
- Pumps and compressors
- Paint spray booths & equipment
- Pneumatic control panels
- Oil Lines

VEHICULAR APPLICATIONS:

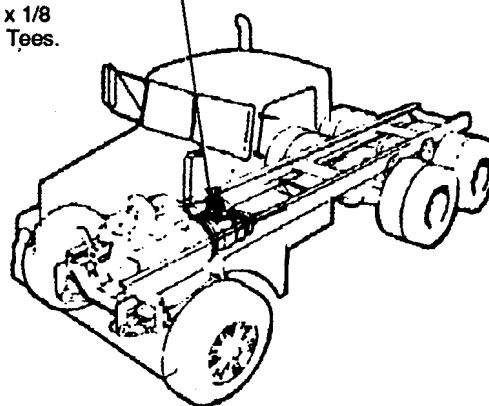
- Truck transmission splitter lines
- Lubrication systems
- Radiator shutter systems
- Instrument and gauges
- Fuel Lines
- Air suspension seats
- Boost pressure gauges
- Headlight washers
- Differential locks
- Fuel return & crossover
- Secondary Vehicular air systems
- For air Brake Systems *specify* Department of Transportation Approved *Insta-Lock*
- Truck air operated windshield wipers
- Pneumatic and vacuum controls & accessories
- Air Horns
- Air Tank pressure gauges
- Vacuum advance systems
- Windshield washers
- Vacuum accessories
- Air operated fifth wheels
- Oil pressure gauges
- Ether injectors
- Tag axles

SECONDARY AIR SYSTEMS

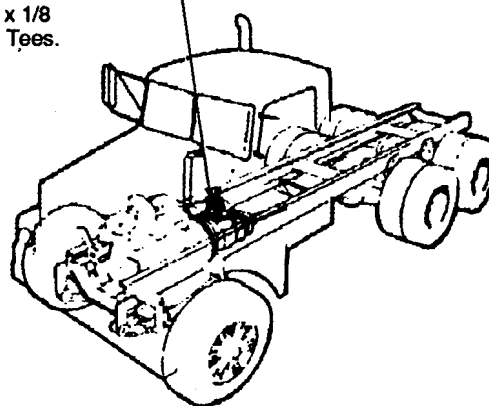
Shutter Stat, 1/4" Unions, 1/4 x 1/8 Male Connectors, Elbows



Windshield Wipers and Washer, 1/4 Unions, 1/4 x 1/8 Male Connector Elbows, Tees.



Shift Systems, 1/8 Unions
1/8 x 1/16 Male Connectors, Elbows
1/8 x 1/8 Male Connectors, Elbows



FITTINGS

Fittings are not recommended for use with metallic tubing or pipe.

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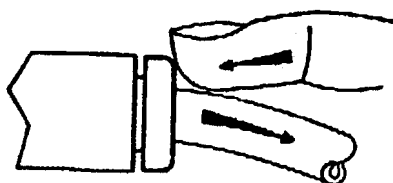
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"INSTA-LOCK" COMPRESSION FITTINGS

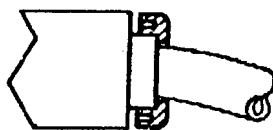


RELEASE BUTTONS

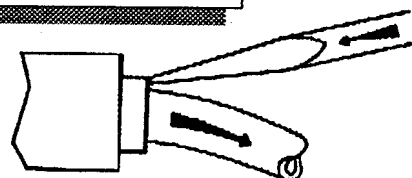
1/8"	94110	cf
3/16"	94115	cf
1/4"	94120	cf
5/16"	94121	cf
3/8"	94122	cf
1/2"	94123	cf



Manual Operation of fitting



Fitting equipped with manual release button



Tube disconnecting with tool

These are made available to customers who have a need for frequent manual dismantling of their tubes as an alternative to the common release method of pressing the collet with a screwdriver or the dismantling tool.

They are particularly useful for customers working with pneumatic

simulators, educational panels or prototype systems, where frequent dismantling is required.

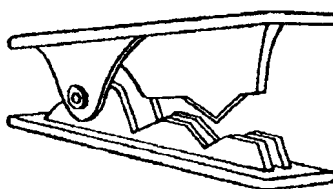
The three different colours can also be used as colour coding for circuits.

These items are pre-packed and sold in boxes of 100 minimum, of each colour

APPLICATION

This tool is designed to permit correct right angle cutting of plastic tubes (Nylon, rilsan, poly-flo, polypropylene, etc...) of external diameters 4mm to 14 mm (1.8" to 1/2") inclusive.

A spring maintains the cutter in the closed position and stops the cut tube being accidentally damaged.



TUBE CUTTER (Plastic and Steel)

Cutter	94140	b
Refill Blades	94145	b

DIMENSIONS

25 x 25 x 70mm

Actual Outside Diameters of Pipe Threads

1/8 NPT
27 T.P.I.

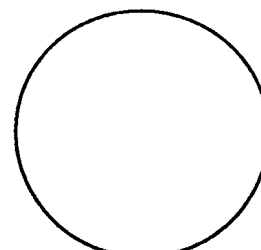
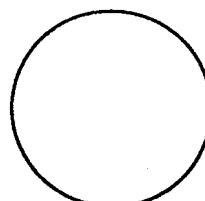
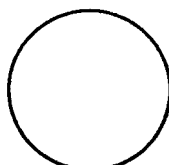
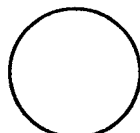
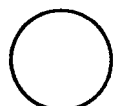
1/4 NPT
18 T.P.I.

3/8 NPT
18 T.P.I.

1/2 NPT
14 T.P.I.

3/4 NPT
14 T.P.I.

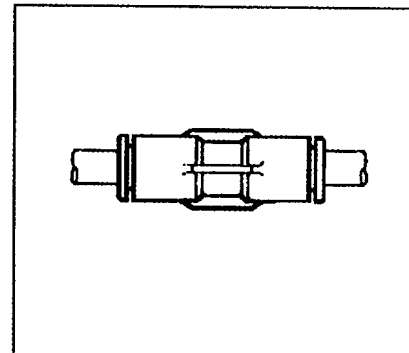
1" NPT
11-1/2 T.P.I.



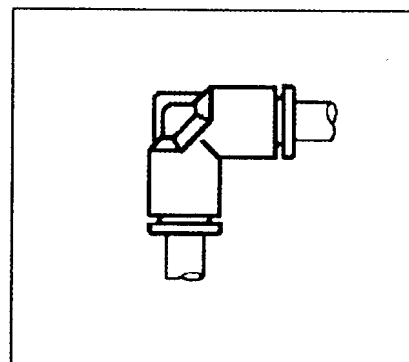
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"INSTA-LOCK" COMPRESSION FITTINGS

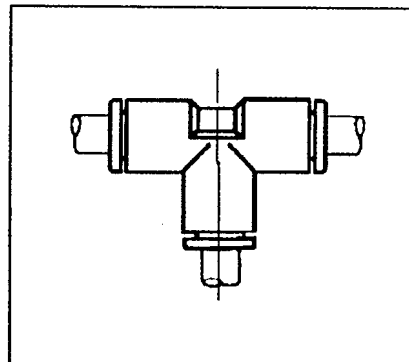
UNION tube to tube (Plastic Body)		
O.D. TUBE	PART NO	
1/8"	93035	BA
5/32	799-532	
3/16"	93040	
1/4"	93045	
5/16"	93046	
3/8"	93047	
1/2	93048	



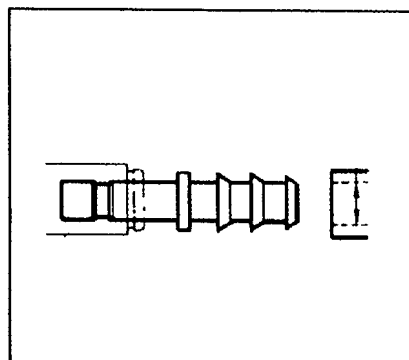
UNION ELBOW tube to tube (Plastic Body)		
O.D. TUBE	PART NO	
1/8"	93001	BA
5/32	93002	
3/16"	93003	
1/4"	93004	
5/16"	93005	
3/8"	93006	
1/2	93007	



TEE tube to tube to tube (Plastic Body)		
O.D. TUBE	PART NO	
1/8"	775-001	BA
5/32	93008	
3/16"	93009	
1/4"	93400	
5/16"	93010	
3/8"	93011	
1/2	93012	



BARB CONNECTOR (Nickel-plated brass)			
O.D. TUBE	HOSE I.D.		
1/8	1/8	93037	BA
5/32	1/8	93013	
3/16	1/8	93039	
1/4	3/16	93042	
5/16	1/4	93043	
3/8	5/16	93044	
1/2	3/8	94170	

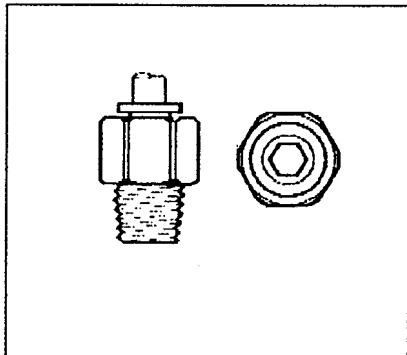


FITTINGS

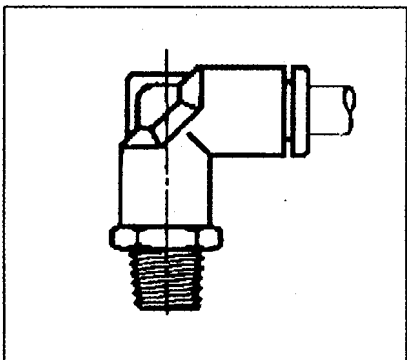
O.E.M. HARDWARE

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"INSTA-LOCK" COMPRESSION FITTINGS



MALE STUD FITTINGS tube to male NPT (brass with pre coating))			
O.D. TUBE	NPT	PART NO	
1/8	1/16	93050	BA
1/8	1/8	93055	
1/8	1/4	93018	
5/32	1/8	93019	
5/32	1/4	93020	
3/16	1/8	93057	
3/16	1/4	93058	
1/4	1/8	93060	
1/4	1/4	93065	
1/4	3/8	93021	
5/16	1/8	93068	
5/16	1/4	93066	
5/16	3/8	93022	
3/8	1/8	93023	
3/8	1/4	93067	
3/8	3/8	93069	
3/8	1/2	93024	
1/2	1/4	93025	
1/2	3/8	94154	
1/2	1/2	94156	



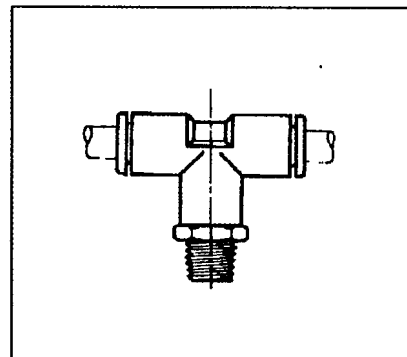
MALE ELBOW tube to male NPT (Plastic Body, brass stud with pre coating)			
O.D. TUBE	NPT	PART NO	
1/8	1/16	93070	BA
1/8	1/8	93075	
1/8	1/4	93026	
5/32	10-32	93027	
5/32	1/8	93028	
5/32	1/4	93029	
3/16	1/8	93077	
1/4	1/8	93080	
1/4	1/4	93085	
1/4	3/8	93030	
5/16	1/8	93088	
5/16	1/4	93086	
3/8	1/8	93031	
3/8	1/4	93087	
3/8	3/8	93032	
3/8	1/2	93033	
1/2	1/4	93034	
1/2	3/8	94158	
1/2	1/2	94160	

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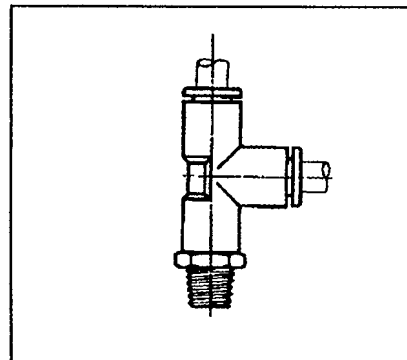
"INSTA-LOCK" COMPRESSION FITTINGS

MALE BRANCH TEE tube to male NPT to tube (Plastic Body, brass stud with pre coating)		
O.D. TUBE	NPT	PART NO
1/8	10-32	93036
1/8	1/16	93090
1/8	1/8	93095
5/32	10-32	93038
5/32	1/8	93041
5/32	1/4	93016
3/16	1/8	93097
1/4	1/8	94100
1/4	1/4	94105
1/4	3/8	93049
5/16	1/8	93089
5/16	1/4	775-003
3/8	1/8	93051
3/8	1/4	94106
3/8	3/8	94108
3/8	1/2	93052
1/2	1/4	93053
1/2	3/8	94150
1/2	1/2	94152

BA



MALE RUN TEE tube to tube to male NPT (Plastic Body, brass stud with pre coating)		
O.D. TUBE	NPT	PART NO
1/8	1/16	93054
1/8	1/8	93061
5/32	10-32	93062
5/32	1/8	93063
5/32	1/4	93064
3/16	1/8	93071
1/4	1/8	93072
1/4	1/4	93073
1/4	3/8	93074
5/16	1/8	93076
5/16	1/4	93078
3/8	1/8	93079
3/8	1/4	93081
3/8	3/8	93082
3/8	1/2	93083
1/2	1/4	93084
1/2	3/8	93091
1/2	1/2	93092

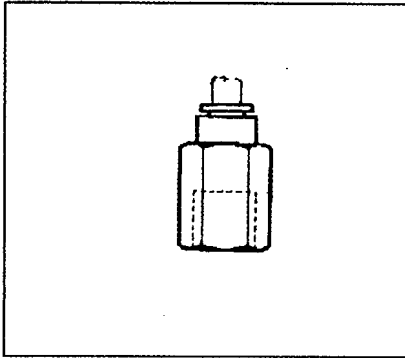


FITTINGS

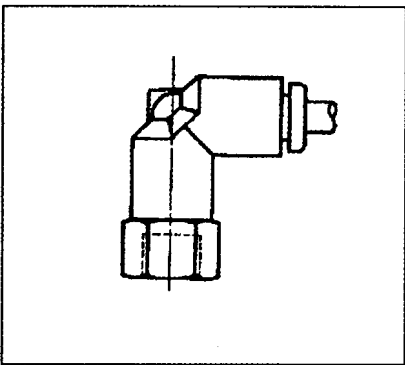
O.E.M. HARDWARE

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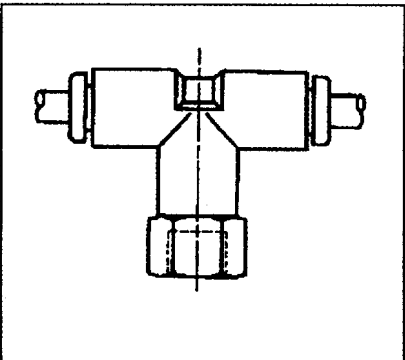
"INSTA-LOCK" COMPRESSION FITTINGS



STRAIGHT FEMALE CONNECTOR (brass)			
O.D. TUBE	NPT	PART NO	
1/8	1/8	93100	BA
1/8	1/4	93101	
5/32	1/8	93102	
5/32	1/4	93103	
3/16	1/8	93104	
3/16	1/4	93105	
1/4	1/8	93106	
1/4	1/4	93107	
5/16	1/8	93108	
5/16	1/4	93109	
3/8	1/4	93110	
3/8	3/8	93111	



FEMALE ELBOW (Plastic Body, brass stud)			
O.D. TUBE	NPT	PART NO	
1/8	1/8	93112	BA
5/32	1/8	93113	
5/32	1/4	93114	
1/4	1/8	93115	
1/4	1/4	93116	
5/16	1/4	93117	
3/8	1/4	93118	
1/2	3/8	93119	



FEMALE BRANCH TEE (Plastic Body, brass stud)			
O.D. TUBE	NPT	PART NO	
1/8	1/8	93120	BA
5/32	1/8	93121	
5/32	1/4	93122	
1/4	1/8	93123	
1/4	1/4	93124	
5/16	1/4	93125	
3/8	1/4	93126	
1/2	3/8	93127	

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"INSTA-LOCK" CLEAR TUBING

FEATURES:

- Working Temperature -40° F to +200° F
- Maximum Working Pressure 250 PSI
- Can be used for Vacuum Lines (-14 PSI)
- Outstanding Impact Resistance
- Virtually Unbreakable
- Non-Toxic
- Minimum Taste and Oder
- Resistance to a Wide Range of Organic and Non-Organic Substances

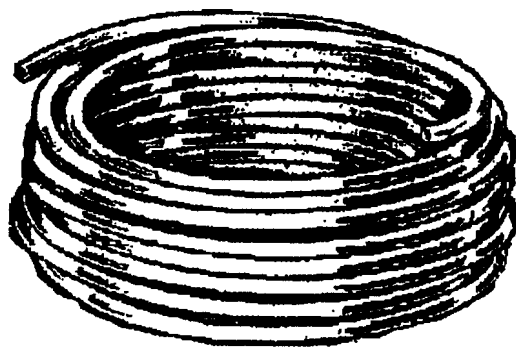
APPLICATIONS:

- Fuel Lines
- Gas Tank Breather Tubes
- Greasing Sheathes
- Bleed Lines
- Pneumatic Controls
- Automatic Advance / Retard Systems
- Water Softening Equipment
- Medical Apparatus
- Dry Cleaning Machines
- Paint Spraying Equipment
- Air Power Tools
- Packing Machinery
- Vending Machines

O.E.M. HARDWARE

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"INSTA-LOCK" CLEAR TUBING



- **QUALITY** — Insta-Lock Tubing is manufactured of Virgin Nylon
- **DIMENSIONALLY STABLE** — Every inch of Insta-Lock Tubing is quality controlled to be sure its diameter is constant. Some tubing is often over or under size because of poor manufacturing controls.
- **CLEAR** — Insta-Lock Tubing's natural clear colour lets you visually check fluid content and level.

CLEAR TUBING	
(50 ft Rolls)	
Outside Dia.	
1/8"	94125.....b
3/16"	94130.....b
1/4"	94135.....b
5/16"	94136.....b
3/8"	94137.....b

Actual Cross Section	
	1/8"
	3/16"
	1/4"
	5/16"
	3/8"

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O.E.M. COMPRESSION TUBE FITTINGS



COMPRESSION SLEEVE

Stock No.	Other No.	Tube Size	
51300	60 x 2	1/8	fa
51301	60 x 3	3/16	fa
51302	60 x 4	1/4	fa
51303	60 x 5	5/16	fa
51304	60 x 6	3/8	fa
51305	60 x 7	7/16	ca
51306	60 x 8	1/2	ca
51307	60 x 10	5/8	ba



STANDARD COMPRESSION NUT

51308	61 x 2	1/8	ba
51309	61 x 3	3/16	ca
51310	61 x 4	1/4	ca
51311	61 x 5	5/16	ca
51312	61 x 6	3/8	ba
51313	61 x 7	7/16	ba
51314	61 x 8	1/2	ba
51315	61 x 10	5/8	f
51316	61 X 12	3/4	f



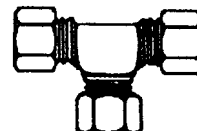
LONG COMPRESSION NUT

51317	1611 x 3	3/16	ba
51318	1611 x 4	1/4	ba
51319	1611 x 5	5/16	ba
51320	1611 x 6	3/8	ba
51321	1611 x 8	1/2	ba
51322	1611 x 10	5/8	f
51323	1611 x 12	3/4	f



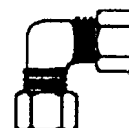
DOUBLE END UNION

51324	62 X 2	1/8	f
51325	62 X 3	3/16	ba
51326	62 X 4	1/4	ba
51327	62 X 5	5/16	ba
51328	62 X 6	3/8	f
51329	62 X 8	1/2	f
51330	62 X 10	5/8	f
51331	62 X 12	3/4	f



UNION TEE Three Tube Ends

Stock No.	Other No.	Tube Size	
51332	64 x 3	3/16	f
51333	64 x 4	1/4	f
51334	64 x 5	5/16	f
51335	64 x 6	3/8	f
51336	64 x 8	1/2	f
51337	64 x 10	5/8	f
51338	64 x 12	3/4	f



ELBOW Two Tube Ends

51339	65 x 3	3/16	f
51340	65 x 4	1/4	ba
51341	65 x 5	5/16	ba
51342	65 x 6	3/8	f
51343	65 x 8	1/2	f



CONNECTOR with Female Pipe Thread

Stock No.	Other No.	Tube Size	Pipe Size	
51344	66 x 2	1/8	1/8	f
51345	66 x 3	3/16	1/8	f
51346	66 x 4	1/4	1/8	ba
51347	66 x 4 x 4	1/4	1/4	ba
51348	66 x 5	5/16	1/8	f
51349	66 x 5 x 4	5/16	1/4	f
51350	66 x 6 x 2	3/8	1/8	f
51351	66 x 6	3/8	1/4	f
51352	66 x 8	1/2	3/8	f
51353	66 x 10	5/8	1/2	f

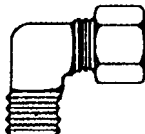
O.E.M. FLARE TUBE FITTINGS



CONNECTOR

with Male Pipe Thread

Stock No.	Other No.	Tube Size	Pipe Size	
51354	68 x 2	1/8	1/8	ba
51355	68 x 3	3/16	1/8	ba
51356	68 x 4	1/4	1/8	ca
51357	68 x 4 x 4	1/4	1/4	ba
51358	68 x 5	5/16	1/8	ca
51359	68 x 5 x 4	5/16	1/4	ba
51360	68 x 6 x 2	3/8	1/8	ba
51361	68 x 6	3/8	1/4	ba
51362	68 x 6 x 6	3/8	3/8	f
51363	68 x 6 x 8	3/8	1/2	f
51364	68 x 7	7/16	1/4	f
51365	68 x 8 x 4	1/2	1/4	f
51366	68 x 8	1/2	3/8	f
51367	68 x 8 x 8	1/2	1/2	f
51368	68 x 10	5/8	1/2	f
51369	68 x 12	3/4	1/2	f



90° ELBOW

with Male Pipe Thread

51370	69 x 2	1/8	1/8	ba
51371	69 x 3	3/16	1/8	ba
51372	69 x 4	1/4	1/8	ba
51373	69 x 4 x 4	1/4	1/4	f
51374	69 x 5	5/16	1/8	ba
51375	69 x 5 x 4	5/16	1/4	f
51376	69 x 6 x 2	3/8	1/8	ba
51377	69 x 6	3/8	1/4	f
51378	69 x 6 x 6	3/8	3/8	f
51379	69 x 7	7/16	1/4	f
51380	69 x 8 x 4	1/2	1/4	f
51381	69 x 8	1/2	3/8	f
51382	69 x 8 x 8	1/2	1/2	f
51383	69 x 10	5/8	1/2	f
51384	69 x 12	3/4	1/2	f



90° ELBOW

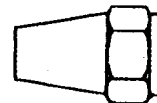
with Female Pipe Thread

51385	70 x 3	3/16	1/8	f
51386	70 x 4	1/4	1/8	f
51387	70 x 5	5/16	1/8	ba
51388	70 x 6	3/8	1/4	f
51389	70 x 8	1/2	3/8	f



INLINE SLEEVE

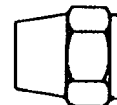
Stock No.	Other No.	Tube Size	
51390	601 X 2	1/8	fa
51391	601 x 3	3/16	fa
51392	601 x 4	1/4	fa
51393	601 x 6	1/4	fa
51394	601 x 8	5/16	fa



ROD FLARE NUT

Long

Stock No.	Other No.	Tube Size	Pipe Size	
51395	41 x 3	3/16	3/16	ca
51396	41 x 4	1/4	15/16	ca
51397	41 x 5	5/16	1-1/8	ca
51398	41 x 6	3/8	1-15/16	ba
51399	41 x 8	1/2	1-5/8	ba
51400	41 x 10	5/8	1-7/8	f
51401	41 x 12	3/4	2-3/16	f



ROD FLARE NUT

Short

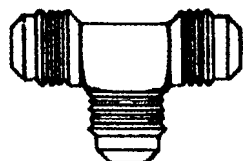
51402	1110 x 2	1/8	1/2	ba
51403	1110 x 3	3/16	5/8	ca
51404	1110 x 4	1/4	3/4	ca
51405	1110 x 5	5/16	7/8	ca
51406	1110 x 6	3/8	1"	ba
51407	1110 x 7	7/16	1-1/16	f
51408	1110 x 8	1/2	1-1/8	ba
51409	1110 x 10	5/8	1-5/16	ba
51410	1110 x 12	3/4	1-1/2	F



MALE FLARE

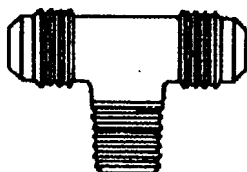
Double End Union

51411	42 x 2	1/8	f
51412	42 x 3	3/16	ba
51413	42 x 4	1/4	ba
51414	42 x 5	5/16	ba
51415	42 x 6	3/8	f
51416	42 x 6	7/16	f
51417	42 x 7	1/2	f
51418	42 x 10	5/8	f
51419	42 x 12	3/4	f



FLARE TEE Three Tube ends

Stock No.	Other No.	Tube Size	
51420.....	44 x 3.....	3/16.....	f
51421.....	44 x 4.....	1/4.....	f
51422.....	44 x 5.....	5/16.....	f
51423.....	44 x 6.....	3/8.....	f
51424.....	44 x 8.....	1/2.....	f



FLARE TEE with Male Pipe on Branch

Stock No.	Other No.	Tube Size	Pipe Size
51425.....	45 x 3.....	3/16.....	1/8..... f
51426.....	45 x 4.....	1/4.....	1/8..... f
51427.....	45 x 4 x 4 x 4.....	1/4.....	1/4..... f
51428.....	45 x 5.....	5/16.....	1/8..... f
51429.....	45 x 6.....	3/8.....	1/4..... f
51430.....	45 x 8.....	1/2.....	3/8..... f



FLARE TEE with Male Pipe on Branch

Stock No.	Other No.	Tube Size	Pipe Size
51431.....	46 x 3.....	1/8.....	1/8..... f
51432.....	46 x 4.....	1/4.....	1/8..... ba
51433.....	46 x 4 x 4.....	1/4.....	1/4..... ba
51434.....	46 x 5.....	5/16.....	1/8..... ba
51435.....	46 x 5 x 4.....	5/16.....	1/4..... ba
51436.....	46 x 6 x 2.....	3/8.....	1/8..... f
51437.....	46 x 6.....	3/8.....	1/4..... f
51438.....	46 x 6 x 6.....	3/8.....	3/8..... f
51439.....	46 x 6 x 8.....	3/8.....	1/2..... f
51440.....	46 x 8 x 4.....	1/2.....	1/4..... f
51441.....	46 x 8.....	1/2.....	3/8..... f
51442.....	46 x 8 x 8.....	1/2.....	1/2..... f
51443.....	46 x 8 x 12.....	1/2.....	3/4..... f
51444.....	46 x 10 x 6.....	5/8.....	3/8..... f
51445.....	46 x 10.....	5/8.....	1/2..... f
51446.....	46 x 10 x 12.....	5/8.....	3/4..... f
51447.....	46 x 12 x 8.....	3/4.....	1/2..... f



FLARE CONNECTOR with Male Pipe Thread

Stock No.	Other No.	Tube Size	Pipe Size
51448.....	48 x 2.....	1/8.....	1/8..... ba
51449.....	48 x 3.....	3/16.....	1/8..... ba
51450.....	48 x 4.....	1/4.....	1/8..... ca
51451.....	48 x 4 x 4.....	1/4.....	1/4..... ba
51452.....	48 x 5.....	5/16.....	1/8..... ca
51453.....	48 x 5 x 4.....	5/16.....	1/4..... ba
51454.....	48 x 6 x 2.....	3/8.....	1/8..... ba
51455.....	48 x 6.....	3/8.....	1/4..... ba
51456.....	48 x 6 x 6.....	3/8.....	3/8..... f
51457.....	48 x 6 x 8.....	3/8.....	1/2..... f
51458.....	48 x 7.....	7/16.....	1/4..... f
51459.....	48 x 8 x 4.....	1/2.....	1/4..... f
51460.....	48 x 8.....	1/2.....	3/8..... f
51461.....	48 x 8 x 8.....	1/2.....	1/2..... f
51462.....	48 x 10 x 6.....	5/8.....	3/8..... f
51463.....	48 x 10 x 8.....	5/8.....	1/2..... f
51464.....	48 x 12.....	3/4.....	1/2..... f



90° FLARE ELBOW with Male Pipe Thread

51465.....	49 x 3.....	3/16.....	1/8..... ba
51466.....	49 x 4.....	1/4.....	1/8..... ba
51467.....	49 X 4 X 4.....	1/4.....	1/4..... ba
51468.....	49 x 5.....	5/16.....	1/8..... ba
51469.....	49 x 5 x 4.....	5/16.....	1/4..... ba
51470.....	49 x 6.....	3/8.....	1/4..... ba
51471.....	49 x 6 x 6.....	3/8.....	3/8..... f
51472.....	49 x 6 x 8.....	3/8.....	1/2..... f



90° FLARE ELBOW Two Tube ends

51473.....	55 x 4.....	1/4.....	f
51474.....	55 x 5.....	5/16.....	ba
51475.....	55 x 6.....	3/8.....	f
51476.....	55 x 8.....	1/2.....	f

O.E.M. INVERTED FLARE TUBE FITTINGS



INVERTED FLARE PLUG

Steel

Stock No.	Other No.	Tube Size	Pipe Size	
51477.....	131X3.....	3/16.....		ba
51478.....	131X4.....	1/4.....		ba
51479.....	131X5.....	5/16.....		ba
51480.....	131X6.....	3/8.....		ba



INVERTED FLARE NUT

Steel Plated

Stock No.	Other No.	Tube Size	Pipe Size	
51486.....	105 x 3.....	3/16.....		ca
51487.....	105 x 4.....	1/4.....		ca
51488.....	105 x 5.....	5/16.....		ca
51489.....	105 x 6.....	3/8.....		ba



INVERTED FLARE NUT

Brass

51481.....	100 x 3.....	3/16.....		ca
51482.....	100 x 4.....	1/4.....		ca
51483.....	100 x 5.....	5/16.....		ca
51484.....	100 x 6.....	3/8.....		ba
51485.....	100 x 8.....	1/2.....		ba



INVERTED FLARE CONNECTOR

with Male Pipe thread

51490.....	200 x 2.....	1/8.....	1/8.....	ba
51491.....	200 x 3.....	3/16.....	1/8.....	ba
51492.....	200 x 4.....	1/4.....	1/8.....	ca
51493.....	200 x 4 x 4.....	1/4.....	1/4.....	ba
51494.....	200 x 5.....	5/16.....	1/8.....	ca
51495.....	200 x 5 x 4.....	5/16.....	1/4.....	ba
51496.....	200 x 6.....	3/8.....	1/4.....	ba
51497.....	200 x 6 x 6.....	3/8.....	3/8.....	f
51498.....	200 x 7.....	7/16.....	1/4.....	f
51499.....	200 X 8 X 4.....	1/2.....	3/8.....	f
51500.....	200 x 8.....	1/2.....	3/8.....	f
51501.....	200 x 10.....	5/8.....	1/2.....	f

Hard to Find Fasteners Our Specialty

O.E.M. BRASS PIPE FITTINGS



90° FEMALE ELBOW

Stock No.	Other No.	Replaces GM Pt.	Size	
51502.....	3500 x 2.....	9409923.....	1/8..	ba
51503.....	3500 x 4.....	444068.....	1/4..	ba
51504.....	3500 x 6.....	444070.....	3/8..	f



PIPE CAP

Stock No.	Other No.	Replaces GM Pt.	Size	
51514.....	3129 x 2.....	144166.....	1/8..	ba
51515.....	3129 x 4.....	144167.....	1/4..	ba



FEMALE PIPE TEE

51505.....	3700 X 2.....	9409935.....	1/8..	f
51506.....	3700 X 4.....	444120.....	1/4..	f
51507.....	3700 X 6.....	444122.....	3/8..	f



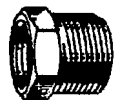
SQUARE HEAD PIPE PLUG

51516.....	3151 X 2.....	444572.....	1/8..	ca
51517.....	3151 x 4.....	444578.....	1/4..	ba
51518.....	3151 x 6.....	444584.....	3/8..	f
51519.....	3151 x 8.....	444748.....	1/2..	f



FEMALE PIPE CROSS

51508.....	3950 X 2.....	144157.....	1/8..	f
51509.....	3950 X 4.....	137157.....	1/4..	f



BUSHING

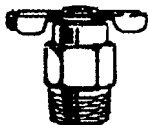
Male to Female Pipe Thread

51520.....	3220 x 4 x 2 ...	112877.....	1/4 x 1/8..	ca
51521.....	3220 x 6 x 2 ...	119933.....	3/8 x 1/8..	ba
51522.....	3220 x 6 x 2 ...	119928.....	3/8 x 1/4..	ba
51523.....	3220 x 8 x 2 ...	144050.....	1/2 x 1/8..	f
51524.....	3220 x 8 x 4 ...	144051.....	1/2 x 1/4..	f
51525.....	3220 x 8 x 6 ...	120322.....	1/2 x 3/8..	f

PIPE COUPLING

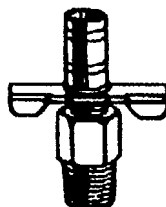
51510.....	3300 X 2.....	444094.....	1/8..	f
51511.....	3300 X 4.....	444096.....	1/4..	f
51512.....	3300 X 6.....	444098.....	3/8..	f
51513.....	3300 X 8.....	444099.....	1/2..	f

O.E.M. DRAIN COCKS



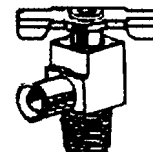
DRAIN COCK-Internal Seat

Part No. 51526(f)
Other No. 130
Size 1/8



DRAIN COCK-Hose Barb

Part No. 51527(f)
Other No. 6783
Size 1/8

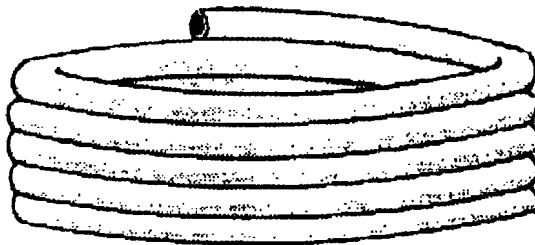


DRAIN COCK-Hose Bib

Part No. 51528(f).. 51529(f)
Other No. 150 120
Size 1/8 1/4

O.E.M. COPPER TUBING

Copper Tubing is ideal for general automotive applications. It is cold drawn to size, seamless and fully bright annealed. The dead soft temper permits single and double flares to be easily made.



Typical Applications

Automotive Gas and Oil Lines
Heat exchangers
Air and Water Lines
Propane and Gas

Oil Coolers
Refrigeration
Instrumentation
Oil Burners

COPPER TUBING Fully Annealed Coils

Stock No.	Outside Dia.	Nominal Wall Thickness	Approx. Burst Pressure PSI	Weight per 100 ft	
51530	1/8"	.030	15,000 p.s.i.	3.6 lbs.	b
51531	3/16"	.030	10,000 p.s.i.	6.1 lbs.	b
51532	1/4"	.030	7,500 p.s.i.	8.5 lbs.	b
51533	5/16"	.032	6,000 p.s.i.	11 lbs.	b
51534	3/8"	.032	5,000 p.s.i.	13.4 lbs.	b
51535	7/16"	.032	4,300 p.s.i.	15.8 lbs.	b
51536	1/2"	.032	3,800 p.s.i.	18.2 lbs.	b
51538	5/8"	.035	3,000 p.s.i.	23.1 lbs.	b
51539	3/4"	.035	2,500 p.s.i.	28 lbs.	b

O.E.M. AIR BRAKE FITTINGS

COMPRESSION SLEEVE-Long Ball

Stock No.	Other No.	Tube Size	Pipe Size	
51539	W00457	1/4		cf
51540	W00361	3/8		cf
51541	W03754	1/2		cf
51542	W10612	5/8		ba
51543	W03897	3/4		ba

UNION TEE-Long Nut

Stock No.	Other No.	Tube Size	Pipe Size	
51554	W17663	3/8		f
51555	W15712	1/2		F

LONG COMPRESSION NUT-Special

51544	W00455	1/4	ba
51545	W00360	3/8	ba
51546	W03755	1/2	ba
51547	W10613	5/8	f
51548	W03896	3/4	ba

ELBOW-Long Nut Two Tube ends

51556	W05113	3/8	f
51557	W22359	1/2	f
51558	W22360	5/8	f

DOUBLE END UNION-Long Nut

51549	W05514	1/4	f
51550	W05134	3/8	f
51551	W15710	1/2	f
51552	W21826	5/8	f
51553	W16523	3/4	f

CONNECTOR-Long Nut with Female Pipe Thread

51559	W05418	3/8	1/8	f
51560	W05826	3/8	1/4	f
51561	W05827	3/8	3/8	f
51562	W15711	1/2	3/8	f



CONNECTORS-Long Nut

Stock No.	Other No.	Tube Size	Pipe Size	
51563.....	W05127.....	1/4.....	1/8..	f
51564.....	W05183.....	1/4.....	1/4..	f
51565.....	W05509.....	3/8.....	1/8..	ba
51566.....	W05053.....	3/8.....	1/4..	ba
51567.....	W05824.....	3/8.....	3/8..	f
51568.....	W22063.....	3/8.....	1/2..	f
51569.....	W17690.....	1/2.....	1/4..	f
51570.....	W17525.....	1/2.....	3/8..	f
51571.....	W17691.....	1/2.....	1/2..	f
51572.....	W16685.....	5/8.....	3/8..	f
51573.....	W16684.....	5/8.....	1/2..	f
51574.....	W17621.....	3/4.....	1/2..	f
51575.....	W15762.....	3/4.....	3/4..	f

SLEEVE-Slotted

Stock No.	Other No.	For Hose O.D.	I.D.
51595.....	W03610.....	3/4.....	3/8.....ca

90° ELBOW-Long Nut with Male Pipe Thread

51576.....	W24318.....	1/4.....	1/4..	f
51577.....	W05522.....	3/8.....	1/8..	f
51578.....	W05102.....	3/8.....	1/4..	f
51579.....	W05829.....	3/8.....	3/8..	f
51580.....	W22062.....	3/8.....	1/2..	f
51581.....	W20475.....	1/2.....	1/4..	f
51582.....	W15709.....	1/2.....	3/8..	f
51583.....	W16310.....	1/2.....	1/2..	f
51584.....	W21993.....	5/8.....	3/8..	f
51585.....	W21825.....	5/8.....	1/2..	f

90° ELBOW with Female Pipe Thread

51586.....	W05135.....	3/8.....	1/4..	f
51587.....	W05830.....	3/8.....	3/8..	f

ADAPTOR TEE with Male Pipe on Run

51588.....	W05104.....	3/8.....	1/4..	f
51589.....	W17050.....	3/8.....	3/8..	f
51590.....	W15701.....	1/2.....	3/8..	f

ADAPTOR TEE Male Pipe on Branch

51591.....	W17051.....	3/8.....	1/8..	f
51592.....	W05103.....	3/8.....	1/4..	f
51593.....	W05177.....	3/8.....	3/8..	f
51594.....	W15700.....	1/2.....	3/8..	f

**CONNECTORS-Long Nut**

Stock No.	Other No.	Tube Size	Pipe Size	
51563.....	W05127.....	1/4.....	1/8..	f
51564.....	W05183.....	1/4.....	1/4..	f
51565.....	W05509.....	3/8.....	1/8..	ba
51566.....	W05053.....	3/8.....	1/4..	ba
51567.....	W05824.....	3/8.....	3/8..	f
51568.....	W22063.....	3/8.....	1/2..	f
51569.....	W17690.....	1/2.....	1/4..	f
51570.....	W17525.....	1/2.....	3/8..	f
51571.....	W17691.....	1/2.....	1/2..	f
51572.....	W16685.....	5/8.....	3/8..	f
51573.....	W16684.....	5/8.....	1/2..	f
51574.....	W17621.....	3/4.....	1/2..	f
51575.....	W15762.....	3/4.....	3/4..	f

90° ELBOW-Long Nut**with Male Pipe Thread**

51576.....	W24318.....	1/4.....	1/4..	f
51577.....	W05522.....	3/8.....	1/8..	f
51578.....	W05102.....	3/8.....	1/4..	f
51579.....	W05829.....	3/8.....	3/8..	f
51580.....	W22062.....	3/8.....	1/2..	f
51581.....	W20475.....	1/2.....	1/4..	f
51582.....	W15709.....	1/2.....	3/8..	f
51583.....	W16310.....	1/2.....	1/2..	f
51584.....	W21993.....	5/8.....	3/8..	f
51585.....	W21825.....	5/8.....	1/2..	f

**90° ELBOW
with Female Pipe Thread**

51586.....	W05135.....	3/8.....	1/4..	f
51587.....	W05830.....	3/8.....	3/8..	f

**ADAPTOR TEE
with Male Pipe on Run**

51588.....	W05104.....	3/8.....	1/4..	f
51589.....	W17050.....	3/8.....	3/8..	f
51590.....	W15701.....	1/2.....	3/8..	f

**ADAPTOR TEE
Male Pipe on Branch**

51591.....	W17051.....	3/8.....	1/8..	f
51592.....	W05103.....	3/8.....	1/4..	f
51593.....	W05177.....	3/8.....	3/8..	f
51594.....	W15700.....	1/2.....	3/8..	f

SLEEVE-Slotted

Stock No.	Other No.	For Hose O.D.	I.D.	
51595.....	W03610.....	3/4.....	3/8.....	ca

NUT

51596.....	W03624.....	3/8.....		f
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HOSE CONNECTOR

Stock No.	Other No.	For Hose O.D.	I.D.	Male P.T.
51597.....	W15540.....	3/4.....	3/8.....	1/4..f
51598.....	W15539.....	3/4.....	3/8.....	3/8..f
51599.....	W15539.....	3/4.....	3/8.....	1/2..f

SPRING GUARD & NUT

Stock No.	Other No.	Size	
51600.....		3/8.....	b

NUT FOR SPRING GUARD

51601.....	W03613.....	3/8.....	b
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NUT FOR SPRING GUARD

51602.....	W01045.....	3/8.....	b
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Hard to Find Fasteners Our Specialty

PROPANE CONVERSION FITTINGS



535234^(C)

Hose: 3/16

Pipe: 1/8



535242^(C)

Restrictor .054

Elbow: 1/4

Pipe: 1/4



535236^(C)

Hose: 5/8

Pipe: 3/8



535244^(C)

Restrictor .054

Tube: 3/8

Pipe: 1/4



535238^(C)

Tube: 3/8

Pipe: 1/4



535248^(C)

Tube: 1/2

Pipe: 3/4



535240^(C)

Elbow: 1/2

Pipe: 3/4



535249^(C)

Tube: 1/2

Pipe: 3/4

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TINGS

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NYLON CONNECTORS



12929_(BA)

Connector
1/8" x 1/8"

Gm, Ford, Chrysler
General Purpose



12937_(BA)

Connector
3/16" x 3/16"

Chrysler
General Purpose



12931_(BA)

Connector
1/4" x 1/4"

Gm, Ford
General Purpose



12938_(BA)

Connector
3/8" x 1/4"

Ford
General Purpose



12930_(BA)

Connector
1/8" x 3/16"

Gm, Ford, Chrysler
General Purpose



12936_(BA)

Connector
1/8" x 1/4"

Gm
General Purpose



12935_(BA)

Connector
1/4" x 3/16"

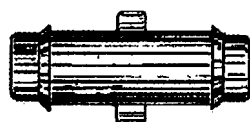
Gm, Ford, Chrysler
General Purpose



12946_(BA)

Connector
5/16" x 5/16"

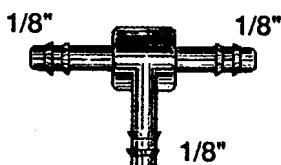
Chrysler
General Purpose



12934_(BA)

Connector
3/8" x 3/8"

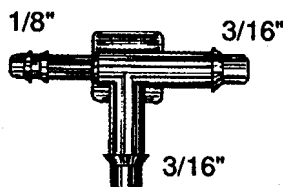
Gm, Chrysler
General Purpose



12923_(BA)

Tee

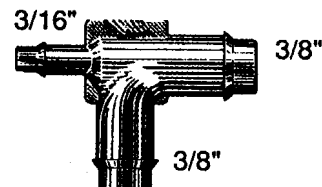
Gm, Ford, Chrysler
General Purpose



12924_(BA)

Tee

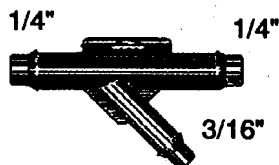
Gm
General Purpose



12941_(BA)

Tee

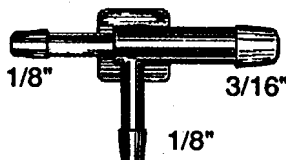
Gm
General Purpose



12945_(BA)

Y Connector

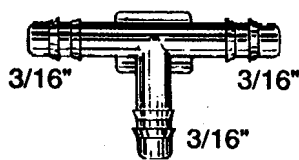
Gm, Chrysler, AMC
General Purpose



12916_(BA)

Tee

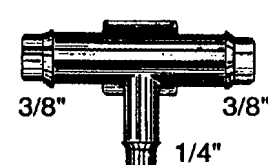
Gm, Ford, Chrysler
General Purpose



12918_(BA)

Tee

Gm, Ford, AMC Chrysler
General Purpose



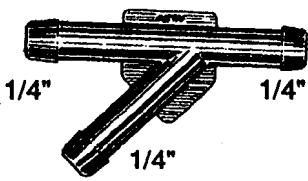
12921_(BA)

Tee

Gm, Ford
General Purpose

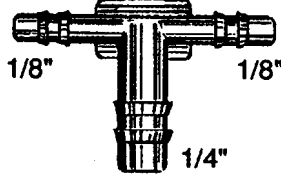
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NYLON CONNECTORS



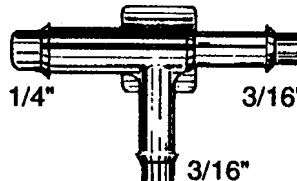
12943_(BA)
Y Connector

GM
General Purpose



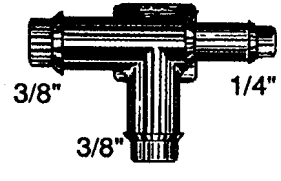
12917_(BA)
Tee

GM
General Purpose



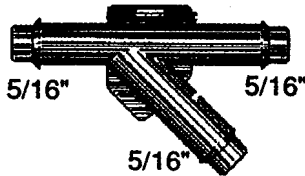
12919_(BA)
Tee

GM, Ford
General Purpose



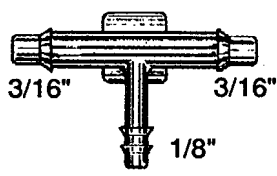
12922_(BA)
Tee

GM, Ford
General Purpose



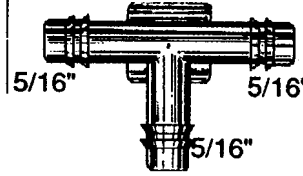
12944_(BA)
Y Connector

Gm
General Purpose



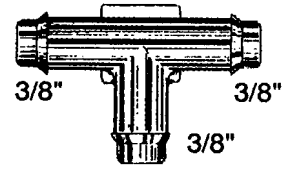
12926_(BA)
Tee

GM
General Purpose



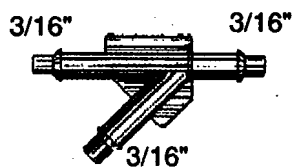
12920_(BA)
Tee

Gm, Chrysler
General Purpose



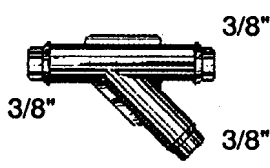
12925_(BA)
Tee

GM, Ford
General Purpose



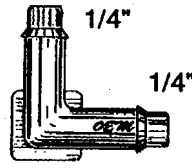
12927_(BA)
Y Connector

Ford, GM, AMC
General Purpose



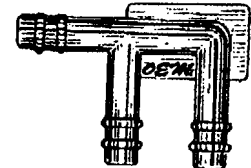
12928_(BA)
Y Connector

GM, Ford, AMC
General Purpose



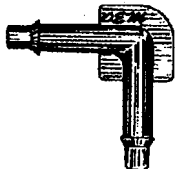
12933_(BA)
Elbow

1/4" x 1/4"
Ford
General Purpose



12940_(BA)
F Connector

3/16" All Ends
GM
General Purpose



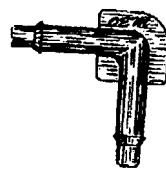
12948_(BA)
Elbow

3/16" x 1/4"
General Purpose



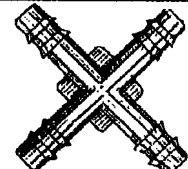
12949_(BA)
5 way tee

3/16" All Ends
AMC, Ford
General Purpose



12932_(BA)
Elbow

3/16" x 3/16"
Gm, Ford, Chrysler
General Purpose



12939_(BA)
Cross Connector

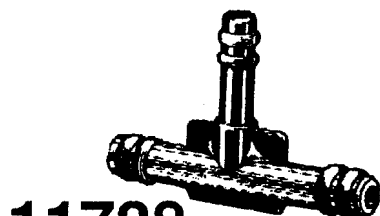
Sizes 3/16" to 1/4"
All GM Products

FITTINGS

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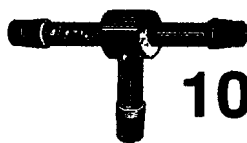
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NYLON CONNECTORS



11738^(BA)
(39S3228)
Tee

Sizes 3/16" to 1/4"
All GM Products



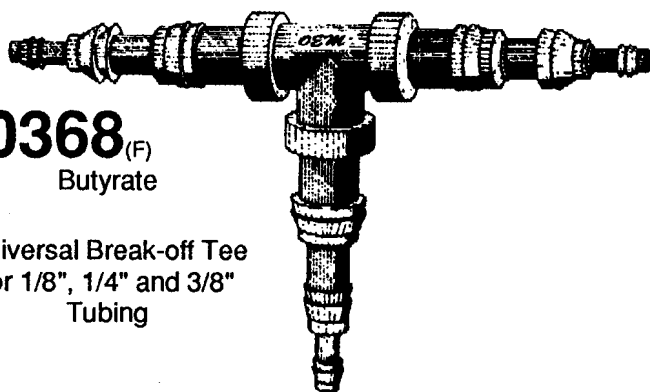
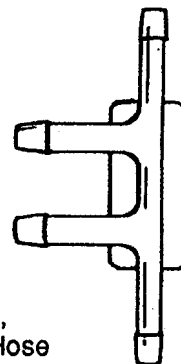
10697^(BA)

Polyethylene Tee
Connector:
Stud 1/8" x 1/8" x 1/8"

General Purpose

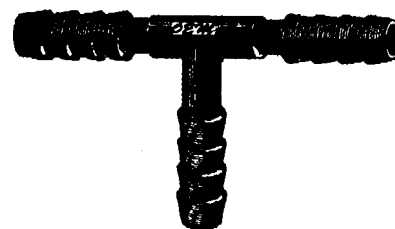
11419^(BA)

GM 560692
GM 22508803
FORD 383847-S
4 Way Connector
3/16" All Ends
GM & Ford Products,
Washer & Vacuum Hose



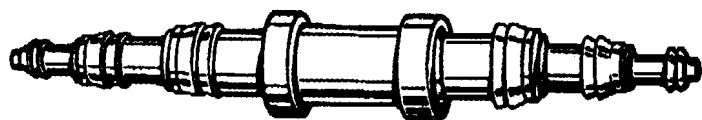
10368^(F)
Butyrate

Universal Break-off Tee
for 1/8", 1/4" and 3/8"
Tubing



**HIGH-DENSITY POLYETHYLENE
TUBING & HOSE TEE CONNECTORS
BARBED ON ALL SIDES**

Part No.	Hose Size I.D.	
10108	5/32" x 5/32" x 5/32"	BA
10109	3/16" x 3/16" x 3/16"	BA
10110	1/4" x 1/4" x 1/4"	BA
11228	3/8" x 3/8" x 3/8"	BA
11229	1/2" x 1/2" x 1/2"	BA



11321^(BA)
Butyrate

For 1/8", 1/4" and 3/8"
Universal Tubing Connector

For use with Vacuum and Windshield Washer Tubing



**HIGH-DENSITY POLYETHYLENE
HOSE CONNECTORS BARBED ON ALL SIDES**

Part No.	Hose Size I.D.	
10101	1/8" x 1/8"	BA
10102	3/16" x 3/16"	BA
10103	1/4" x 1/4"	BA
10104	5/16" x 5/16"	BA
10105	3/8" x 3/8"	BA



**HIGH-DENSITY POLYETHYLENE REDUCER
CONNECTORS BARBED ON ALL SIDES**

Part No.	Hose Size I.D.	
10106	1/4" X 3/16"	ba
10107	3/8" x 1/4"	ba

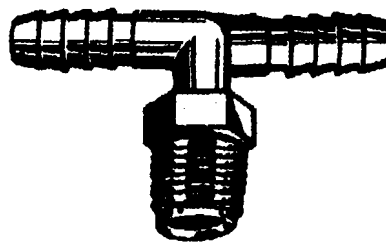
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POLYETHYLENE CONNECTORS



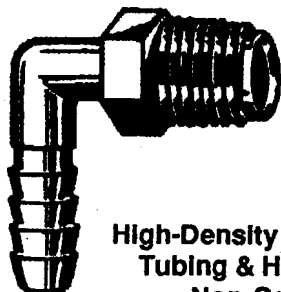
**High-Density Polyethylene
Tubing & Hose Adapters
Non-Corrosive**

Part No.	Pipe Thread	Hose Size	
775-450	1/8"	3/16" I.D.	BA
775-451	1/8"	1/4" I.D.	
775-452	1/4"	3/16" I.D.	
775-453	1/4"	1/4" I.D.	
775-454	1/4"	3/8" I.D.	
775-455	3/8"	3/8" I.D.	
775-456	3/8"	1/2" I.D.	
775-457	1/2"	1/2" I.D.	



**High-Density Polyethylene
Tubing & Hose Tee Connectors
Non-Corrosive**

Part No.	Pipe Thread	Hose Size	
775-467	1/4"	1/4" x 1/4" I.D.	BA
775-468	3/8"	1/2" x 1/2" I.D.	



**High-Density Polyethylene
Tubing & Hose Elbows
Non-Corrosive**

Part No.	Pipe Thread	Hose Size	
775-458	1/8"	3/16" I.D.	BA
775-459	1/8"	1/4" I.D.	
775-460	1/4"	1/4" I.D.	
775-461	1/4"	3/8" I.D.	
775-462	3/8"	3/8" I.D.	
775-463	3/8"	1/2" I.D.	
775-464	1/2"	1/2" I.D.	



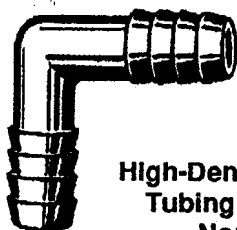
**High-Density Polyethylene
Tubing & Hose Plugs
Non-Corrosive**

Part No.	Pipe Thread	
775-469	3/8"	BA
775-470	3/4"	



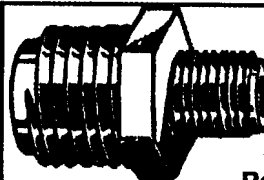
**High-Density Polyethylene
Tubing & Hose Nipples
Non-Corrosive**

Part No.	Pipe Thread	
775-471	1/2" x 1/2"	BA
775-472	3/4" x 3/4"	



**High-Density Polyethylene
Tubing & Hose Elbows
Non-Corrosive**

Part No.	Hose Size	
775-465	3/8 x 3/8" I.D.	BA
775-466	1/2" x 1/2" I.D.	



**High-Density
Polyethylene
Tubing & Hose Reducer
Nipples
Non-Corrosive**

Part No.	Pipe Thread	
775-473	1/2" x 3/8"	BA

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	EMAIL ADDRESS	FAX #		

P.S.T #	AGENTS NAME	AGENT CODE	ZONE
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ORDER	PART #	DESCRIPTION	PRICE	PER	AMOUNT
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4					
5					
6					
7					
8					
9					
10					
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NAME OF CARRIER.

SUBTOTAL

G.S.T

P.S.T

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