

# FleetFit Vehicle push-in fittings

## Inch and Metric

**Simple tube connection and disconnection - no tools required**

**Fewer component parts - Internally machined form in body to secure collet reduces number of potential leak paths**

**Corrosion resistant**

**Easy identification - All collets marked with tube size**

**Total fittings system solution**

**Reduced assembly & maintenance times provide time/labor savings**

**Greater reliability and reduced testing**

**Ease of tube insertion in areas of restricted access**

**Operating Medium:**

Compressed air

**Maximum Working Pressure:**

0 to 150 psi (0 to 10 bar)

**Working Temperature:**

-40°F to 220°F (-40°C to 100°C)

**Materials:**

Body (Straights), Tube support, Collet - Brass BS 2874 CZ 121

Body (Elbows, Tees) - Brass BS 2874 CZ 122

'O' Ring - Buna N (Low Nitrile).

Thread Sealant - Precoat 5

**Tubing:**

Tube should be to SAE J844 (Imperial) or DIN 74324 (Metric)

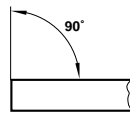
**Standards & Legislation:**

Fittings and Tubing Comply to Department Of Transport Federal Motor Vehicle Safety Standard, (DOT FMVSS 106) (Mandatory requirements for Inch tube fittings in U.S.A.)

Society for Automotive Engineers (SAE) J2494 (Inch tube and fittings) and meet DIN 74324 and German TÜV requirements (Metric Tube and Fittings)



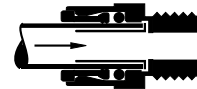
### Tube Connection / Disconnection



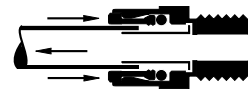
1. Ensure that the end of the tube is cut square and is free from burrs.



2. Push the tube through the collet into the fitting.

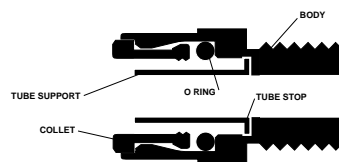


3. Continue pushing the tube through the 'O' ring until it bottoms on the tube stop. Then pull back on the tube to reinforce the collet teeth gripping action.



4. To disconnect - First ensure there is no air present. Push the tube into the fitting until it bottoms on the tube stop. Then hold down the collet and withdraw the tube.

### Component Functions



**Body** -The body has an internally machined form to secure the collet(s), "O" ring(s) and

Tube support(s). It also has internal & externally machined thread form(s) for connection to ports where applicable.

**Collet** -The purpose of the collet is to grip the tube and ensure it is retained by the fitting at all times.

**"O" Ring**-The "O" ring is to ensure adequate interference between the tube & fitting body therefore providing a pneumatic seal at all times.

**Tube Support**-The tube support prevents the tube collapsing during extreme tensile loading conditions. Such conditions are only encountered during performance testing and far exceed those experienced during normal use.

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## Male Connectors NPT



Part numbers ending with "V" have Viton seals.  
\*Special short 1/16" PTF-SAE short thread  
5/32" fittings have a Pneufit style body and collet

O/D Tube	NPT	Product Number
5/32"	1/16"*	70 4542 02V
5/32"	1/8"	70 4530 02V
3/16"	1/8"	95 4530 03
1/4"	1/16"	95 4530 01
1/4"	1/8"	95 4530 04
1/4"	1/4"	95 4530 10
1/4"	3/8"	95 4530 18
3/8"	1/8"	95 4530 06
3/8"	1/4"	95 4530 12
3/8"	3/8"	95 4530 20
3/8"	1/2"	95 4530 29
1/2"	1/4"	95 4530 13
1/2"	3/8"	95 4530 21
1/2"	1/2"	95 4530 30
5/8"	3/8"	95 4530 22
5/8"	1/2"	95 4530 31
3/4"	3/8"	95 4530 48
3/4"	1/2"	95 4530 49
3/4"	3/4"	95 4530 55

## Female Connectors NPT Female



SAE 630103

O/D Tube	B NPT	Product Number
1/4"	1/8"	95 4355 04
1/4"	1/4"	95 4355 10
3/8"	1/8"	95 4355 06
3/8"	1/4"	95 4355 12
3/8"	3/8"	95 4355 20
1/2"	1/2"	95 4355 30

## Bulkhead Unions Metric



SAE 630601

O/D Tube	Thread	Product Number
1/4"	M15 x 1.0	94 4507 04
3/8"	M20 x 1.5	94 4507 06
1/2"	M24 x 1.5	94 4507 07



SAE 630101

## Reducing Unions Inch

O/D Tube	Tube Tube	Product Number
3/8"	1/4"	94 4504 48
1/2"	3/8"	94 4504 64

## Male Elbows NPT



SAE 630202

O/D Tube	NPT	Product Number
5/32"	1/8"	70 4331 02V
3/16"	1/8"	95 4331 03
1/4"	1/8"	95 4331 04
1/4"	1/4"	95 4331 10
1/4"	3/8"	95 4331 18
1/4"	1/2"	95 4331 27
5/16"	1/8"	95 4331 05
3/8"	1/8"	95 4331 06
3/8"	1/4"	95 4331 12
3/8"	3/8"	95 4331 20
3/8"	1/2"	95 4331 29
1/2"	1/4"	95 4331 13
1/2"	3/8"	95 4331 21
1/2"	1/2"	95 4331 30
1/2"	3/4"	95 4331 44
5/8"	3/8"	95 4331 98
5/8"	1/2"	95 4331 31
3/4"	3/8"	95 4331 48
3/4"	1/2"	95 4331 49
3/4"	3/4"	95 4331 55

## Female Bulkhead Connectors NPT Female, UNF



### Additional Bulkhead Nuts

Bulkheads include lock nuts. Refer to the numbers below to order additional nuts.

O/D Tube	NPT Female	C UNF	Product Number
1/4"	1/8"	5/8"	95 4570 06
1/4"	1/4"	5/8"	95 4570 01
3/8"	1/4"	3/4"	95 4570 03
3/8"	3/8"	3/4"	95 4570 04
3/8"	1/2"	3/4"	95 4570 02
1/2"	3/8"	7/8"	95 4570 05
1/2"	1/2"	7/8"	95 4570 07

Thread	Part Number
M12 X 1.0	95 0520 01
M15 X 1.0	95 0520 03
M20 X 1.5	95 0520 06
M24 X 1.5	95 0520 07

## Male Connectors Metric



O/D Tube	Thread Thread	Product Number
1/4"	M10 x 1.0	94 4666 31
1/4"	M12 x 1.5	94 4666 33
1/4"	M16 x 1.5	94 4666 35
1/4"	M22 x 1.5	94 4666 38
3/8"	M12 x 1.5	94 4666 53
3/8"	M14 x 15	94 4666 54
3/8"	M16 x 1.5	94 4666 55
3/8"	M22 x 1.5	94 4666 58
1/2"	M16 x 1.5	94 4666 65
1/2"	M20 x 1.5	94 4666 67
1/2"	M22 x 1.5	94 4666 68
5/8"	M22 x 1.5	94 4666 75

## Straight Bulkhead Adapters UNF / SAE 45° Flare



O/D Tube	UNF	Product Number
1/4"	7/16"	94 4602 03
3/8"	5/8"	94 4602 02
1/2"	3/4"	94 4602 01

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## Male Hobbs Elbows Metric



O/D Tube	Thread	Product Number
1/4"	M10 x 1.0	94 4138 31
1/4"	M12 x 1.0	94 4138 32
1/4"	M12 x 1.5	94 4138 33
1/4"	M16 x 1.5	94 4138 35
1/4"	M22 x 1.5	94 4138 38
3/8"	M12 x 1.5	94 4138 53
3/8"	M14 x 1.5	94 4138 54
3/8"	M16 x 1.5	94 4138 55
3/8"	M22 x 1.5	94 4138 58
1/2"	M14 x 1.5	94 4138 64
1/2"	M16 x 1.5	94 4138 65
1/2"	M22 x 1.5	94 4138 68
5/8"	M22 x 1.5	94 4138 75
3/4"	M22 x 1.5	94 4138 98

## Male Elbows BSP Taper



O/D Tube	BSP Taper	Product Number
1/4"	1/8"	94 4330 04
1/4"	1/4"	94 4330 10
3/8"	1/4"	94 4330 12
3/8"	3/8"	94 4330 20
3/8"	1/2"	94 4330 29
1/2"	1/4"	94 4330 13
1/2"	3/8"	94 4330 21
1/2"	1/2"	94 4330 30

## Male Swivel Elbows NPT



SAE 6302AA

CAUTION: Swivel adapters are not suitable for use in continuously rotating or gyrating applications.

O/D Tube	NPT	Product Number
1/4"	1/8"	95 4114 04
1/4"	1/4"	95 4114 10
1/4"	3/8"	95 4114 18
3/8"	1/8"	95 4114 06
3/8"	1/4"	95 4114 12
3/8"	3/8"	95 4114 20
3/8"	1/2"	95 4114 29
1/2"	1/4"	95 4114 13
1/2"	3/8"	95 4114 21
1/2"	1/2"	95 4114 30
5/8"	1/2"	95 4114 31
3/4"	1/2"	95 4114 49



SAE 630302

## 45° Male Elbows NPT

O/D Tube	NPT	Product Number
1/4"	1/8"	95 4600 04
1/4"	1/4"	95 4600 10
3/8"	1/8"	95 4600 06
3/8"	1/4"	95 4600 12
3/8"	3/8"	95 4600 20
3/8"	1/2"	95 4600 29
1/2"	1/4"	95 4600 13
1/2"	3/8"	95 4600 21
1/2"	1/2"	95 4600 30
5/8"	3/8"	95 4600 22
5/8"	1/2"	95 4600 31
3/4"	1/2"	95 4600 49

## Female Elbows NPT



SAE 630203

A O/D Tube	B NPT	Product Number
3/16"	1/8"	95 4564 01
1/4"	1/4"	95 4564 10
1/4"	1/8"	95 4562 04
1/4"	3/8"	95 4564 18
3/8"	1/8"	95 4564 06
3/8"	3/8"	95 4564 20
1/2"	1/2"	95 4564 30



## Union Elbows

O/D Tube	Product Number
1/4"	94 4511 04
3/8"	94 4511 06
1/2"	94 4511 07

SAE 630201

## Plug\*



SAE 630109

O/D Stem	Part Number
1/4"	94 0509 04
3/8"	94 0509 06
1/2"	94 0509 07

\*Material: Thermoplastic



SAE 630303

## 45° Female Elbows NPT

O/D Tube	NPT	Product Number
3/8"	1/8"	95 4470 06

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SAE 630701

### Union Bulkhead Elbows Metric

O/D Tube	Thread	Product Number
1/4"	M15 x 1.0	94 4591 04
3/8"	M20 x 1.5	94 4591 06
1/2"	M24 x 1.5	94 4591 07



SAE 631403

### Male Bulkhead Elbows NPT Female, UNF

O/D Tube	NPT Female	UNF	Product Number
1/4"	1/8"	5/8"	95 4597 04
3/8"	3/8"	7/8"	95 4597 01
1/2"	3/8"	7/8"	95 4597 02
5/8"	3/8"	7/8"	95 4597 03



SAE 630425

### Male Branch Tees NPT

O/D Tube	O/D Tube	NPT	Product Number
1/4"	1/4"	1/8"	95 4590 02
1/4"	1/4"	1/4"	95 4590 12
1/4"	1/4"	3/8"	95 4590 19
3/8"	1/4"	1/4"	95 4590 16
3/8"	3/8"	1/4"	95 4590 10
3/8"	3/8"	3/8"	95 4590 01
1/2"	1/4"	1/4"	95 4590 09
1/2"	1/4"	3/8"	95 4590 06
1/2"	1/4"	1/2"	95 4590 08
1/2"	3/8"	1/2"	95 4590 14
1/2"	1/2"	1/4"	95 4590 13
1/2"	1/2"	3/8"	95 4590 05
1/2"	1/2"	1/2"	95 4590 04
5/8"	1/2"	3/8"	95 4590 15
5/8"	1/2"	1/2"	95 4590 07



### Double Elbow Adapters NPT

O/D Tube	O/D Tube	NPT	Product Number
1/4"	1/4"	1/8"	95 4761 01
1/4"	1/4"	3/8"	95 4761 13



### Special Tee Adapters NPT, NPT Female

O/D Tube	NPT	NPT Female	Product Number
3/8"	1/4"	1/4"	95 4593 09
3/8"	3/8"	1/4"	95 4593 11
3/8"	1/2"	1/4"	95 4593 03
1/2"	3/8"	1/4"	95 4593 07
1/2"	1/2"	1/8"	95 4593 06
1/2"	1/2"	1/4"	95 4593 02



### Male Branch Tees BSP Taper

O/D Tube	O/D Tube	BSP Taper	Product Number
1/4"	1/4"	1/4"	94 4590 12
3/8"	3/8"	1/4"	94 4590 10



SAE 6304AC

### Male Swivel Branch Tees NPT

O/D Tube	NPT	Product Number
3/16"	1/8"	95 4111 03
1/4"	1/8"	95 4111 04
1/4"	1/4"	95 4111 10
3/8"	1/4"	95 4111 12
3/8"	3/8"	95 4111 20
1/2"	1/4"	95 4111 13
1/2"	3/8"	95 4111 21
1/2"	1/2"	95 4111 30



SAE 630424

### Male Run Tees NPT

O/D Tube	O/D Tube	NPT	Product Number
1/4"	1/4"	1/8"	95 4586 28
1/4"	1/4"	1/4"	95 4586 13
1/4"	1/4"	3/8"	95 4586 17
1/4"	3/8"	1/4"	95 4586 21
1/4"	3/8"	3/8"	95 4586 07
1/4"	1/2"	3/8"	95 4586 06
1/4"	1/2"	1/2"	95 4586 18
1/4"	5/8"	3/8"	95 4586 14
3/8"	1/4"	1/4"	95 4586 05
3/8"	1/4"	3/8"	95 4586 27
3/8"	3/8"	1/4"	95 4586 03
3/8"	3/8"	3/8"	95 4586 10
3/8"	3/8"	1/2"	95 4586 04
3/8"	1/2"	3/8"	95 4586 26
1/2"	1/4"	1/2"	95 4586 02
1/2"	3/8"	3/8"	95 4586 20
1/2"	1/2"	1/4"	95 4586 16
1/2"	1/2"	3/8"	95 4586 11
1/2"	1/2"	1/2"	95 4586 15

CAUTION: Swivel adapters are not suitable for use in continuously rotating or gyrating applications.

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SAE 630835

### Side Tee Adapters NPT, NPT Female

O/D Tube	B Tube	NPT Female	Product Number
1/4"	1/4"	1/4"	95 4585 10
3/8"	1/4"	1/4"	95 4585 03
3/8"	1/4"	1/8"	95 4585 11
1/2"	3/8"	1/4"	95 4585 05
1/2"	1/2"	1/8"	95 4585 02
1/2"	1/2"	1/4"	95 4585 04

### Special 90° Tees NPT

O/D Tube	O/D Tube	NPT	Product Number
1/4"	1/4"	1/4"	95 4589 01
1/4"	3/8"	3/8"	95 4589 11
3/8"	3/8"	3/8"	95 4589 19
3/8"	3/8"	1/4"	95 4589 16
3/8"	1/2"	3/8"	95 4589 10
3/8"	1/2"	1/2"	95 4589 07
1/2"	1/2"	3/8"	95 4589 04
1/2"	1/2"	1/2"	95 4589 02
1/2"	5/8"	1/2"	95 4589 05
5/8"	3/8"	1/2"	95 4589 20
5/8"	5/8"	1/2"	95 4589 06



### Special Tee Adapters NPT Female, NPT

O/D Tube	NPT Female	NPT	Product Number
1/2"	1/4"	1/4"	95 4563 01
1/2"	1/4"	3/8"	95 4563 02



### 45° Tee Adapter

O/D Tube	NPT	NPT	Product Number
1/2"	3/8"	1/4"	95 4653 02
5/8"	3/8"	1/8"	95 4653 03



Note: Ports are threaded on opposite side shown.

### Male Swivel Run Tees NPT

O/D Tube	NPT	Product Number
1/4"	1/8"	95 4112 04
1/4"	1/4"	95 4112 10
3/8"	1/4"	95 4112 12
3/8"	3/8"	95 4112 20
3/8"	1/2"	95 4112 29
1/2"	1/4"	95 4112 13
1/2"	3/8"	95 4112 21
1/2"	1/2"	95 4112 30



SAE 6308AB

### Union Tee

O/D Tube	Product Number
1/4"	94 4514 04
3/8"	94 4514 06
1/2"	94 4514 07
5/8"	94 4514 08



SAE 630401

### 90° Fixed Tee

O/D Tube	NPT Female	NPT	Product Number
3/8"	1/8"	3/8"	95 4565 03
3/8"	1/8"	1/4"	95 4565 04
1/2"	1/8"	3/8"	95 4565 01
1/2"	1/4"	1/2"	95 4565 02
3/4"	1/4"	1/2"	95 4565 05



Note: Ports are threaded on side shown.

### Special 4-Way Adaptors NPT Female

O/D Tube	NPT Female	NPT	Product Number
1/4"	1/4"	1/4"	95 4594 03*
1/2"	3/8"	1/8"	95 4594 04
1/2"	1/2"	1/8"	95 4594 02
1/2"	1/2"	1/4"	95 4594 01



\* Special SAE short thread