

# Self-Sealing and Oscillating Fittings

Parker Legris has developed these innovative push-to-connect fittings in order to integrate various functions and allow quick installation on pneumatic circuits.

## Product Features:

- Silicone-Free

### Self-Sealing Fittings

- Prevents fluid flow when there is no tube connected
- Circuits may remain pressurized when being checked and maintained
- When connected, the compressed air flow is restored in both directions

### Oscillating Fittings

- Rotation matched to cylinder rod stroke
- Prevents tube wear due to excessive flexing
- Optimum reliability and durability
- Simplifies circuit assembly

## Markets:

- Automotive
- Textile
- Packaging
- Semi-Conductor

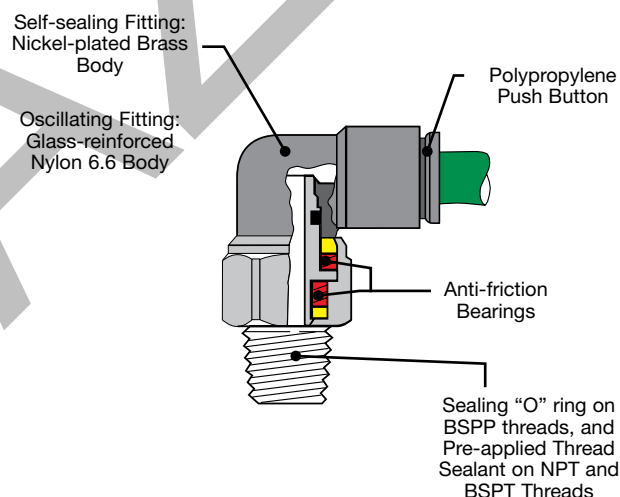
## Applications:

- Robotics
- Automotive Process
- Pneumatics
- Semi-Conductors
- Textile
- Packaging

## Specifications:

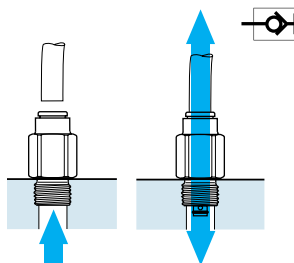
|                            |  |
|----------------------------|--|
| <b>Compatible Fluids</b>   | Compressed air<br>Other fluids: please consult us          |
| <b>Working Pressure</b>    | 290 psi (20 bar)<br>145 psi (10 bar) self sealing fittings |
| <b>Vacuum Capability</b>   | 28" Hg   |
| <b>Working Temperature</b> | -4° to 176° F (-20° to +80° C)                             |

Reliable performance is dependent upon the type of fluid conveyed, component materials and tubing being used. Use is guaranteed with a vacuum of 755 mm Hg (99% vacuum).

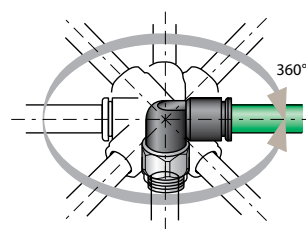


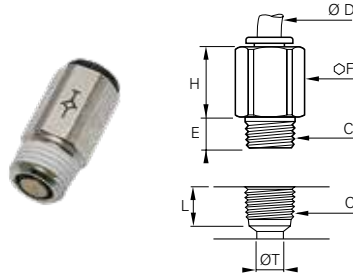
## Installation Configurations

### Self-Sealing Fittings



### Oscillating Fittings

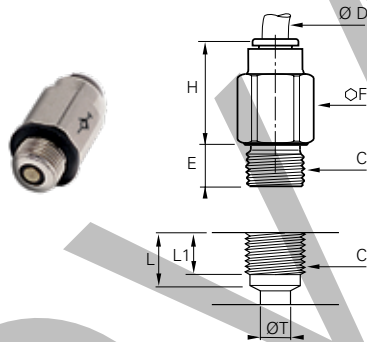


[Click here for CADs, Product Specifications or to Configure Parts Online](#)


### 3091 Self-Sealing Male Fitting NPT or BSPT

| PART NO.   | ØD IN | C NPT | E IN | F MM | H IN | L IN | ØT IN |
|------------|-------|-------|------|------|------|------|-------|
| 3091 04 11 | 5/32  | 1/8   | .30  | 12   | .51  | .37  | .20   |
| 3091 56 11 | 1/4   | 1/8   | .30  | 13   | .60  | .37  | .30   |
| 3091 56 14 | 1/4   | 1/4   | .43  | 14   | .41  | .55  | .30   |
| 3091 60 14 | 3/8   | 1/4   | .43  | 19   | .83  | .55  | .35   |
| 3091 60 18 | 3/8   | 3/8   | .45  | 19   | .73  | .55  | .40   |

| PART NO.   | ØD MM | C BSPT | E MM | F MM | H MM | L MM | ØT MM |
|------------|-------|--------|------|------|------|------|-------|
| 3091 04 10 | 4     | R1/8   | 7.5  | 12   | 18   | 9.5  | 5     |
| 3091 06 10 | 6     | R1/8   | 7.5  | 13   | 19.5 | 9.5  | 7.5   |
| 3091 08 10 | 8     | R1/8   | 6.5  | 14   | 25   | 10.5 | 7.5   |
| 3091 08 13 | 8     | R1/4   | 11   | 14   | 25.5 | 13.5 | 9     |

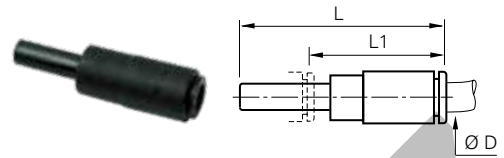


### 3391 Self-Sealing Male Fitting Metric Tube to BSPP

| PART NO.   | ØD MM | C BSPP | E MM | F MM | H MM |
|------------|-------|--------|------|------|------|
| 3391 04 10 | 4     | G1/8   | 5    | 13   | 18   |
| 3391 06 10 | 6     | G1/8   | 5    | 14   | 19.5 |
| 3391 08 10 | 8     | G1/8   | 5    | 14   | 29.5 |
| 3391 08 13 | 8     | G1/4   | 5.5  | 16   | 25.5 |
| 3391 10 17 | 10    | G3/8   | 5.5  | 20   | 27.5 |

### Stud Dimensions

| ØD MM | C BSPP | E MM | F MM | H MM |
|-------|--------|------|------|------|
| 4     | G1/8   | 7.5  | 6    | 5    |
| 6     | G1/8   | 9    | 6    | 7.5  |
| 8     | G1/8   | 10   | 6    | 7.5  |
| 8     | G1/4   | 11   | 8    | 9    |
| 10    | G 3/8  | 13   | 11   | 10   |

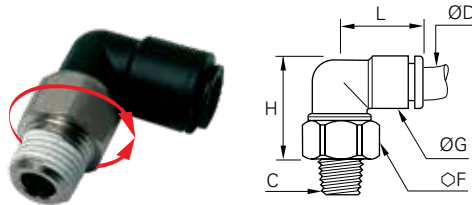


### 3160 Self-Sealing Plug-in Fitting Metric

| PART NO.   | ØD MM | L MM | L1 MM |
|------------|-------|------|-------|
| 3160 04 00 | 4     | 46   | 33.5  |
| 3160 06 00 | 6     | 53.5 | 31    |
| 3160 08 00 | 8     | 58   | 31    |

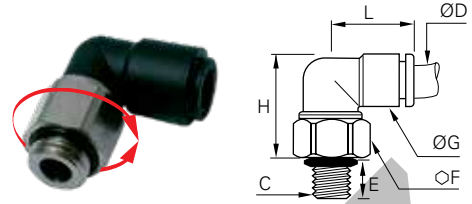
This model prevents fluid flow in-line when there is no tube connected; connecting the tube allows fluid flow.

**WARNING** These products can expose you to chemicals including LEAD which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



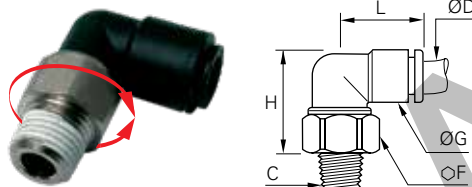
### 3159 Oscillating Male Elbow Fractional Inch Tube to NPT

| PART NO.   | ØD IN | C NPT | F MM | G IN | H IN | L IN |
|------------|-------|-------|------|------|------|------|
| 3159 04 11 | 5/32  | 1/8   | 12   | .43  | .85  | .69  |
| 3159 56 11 | 1/4   | 1/8   | 14   | .55  | 1.04 | .81  |
| 3159 56 14 | 1/4   | 1/4   | 14   | .55  | 1.04 | .81  |



### 3189 Oscillating Male Elbow Metric Tube to BSPP or M5

| PART NO.   | ØD MM | C BSPP/M5 | E MM | F MM | G MM | H MM | L MM |
|------------|-------|-----------|------|------|------|------|------|
| 3189 04 19 | 4     | M5X0.8    | 3    | 12   | 11   | 24.5 | 17.5 |
| 3189 04 10 | 4     | G1/8      | 5    | 13   | 11   | 23   | 17.5 |
| 3189 06 19 | 6     | M5X0.8    | 3    | 12   | 14   | 27.5 | 20.5 |
| 3189 06 10 | 6     | G1/8      | 5    | 14   | 14   | 27   | 20.5 |
| 3189 06 13 | 6     | G1/4      | 5.5  | 16   | 14   | 25.5 | 20.5 |
| 3189 08 10 | 8     | G1/8      | 5    | 17   | 16   | 33.5 | 23.5 |
| 3189 08 13 | 8     | G1/4      | 5.5  | 17   | 16   | 31   | 23.5 |
| 3189 08 17 | 8     | G3/8      | 5.5  | 20   | 16   | 29.5 | 23.5 |
| 3189 10 13 | 10    | G1/4      | 5.5  | 19   | 19.5 | 50   | 29   |
| 3189 10 17 | 10    | G3/8      | 5.5  | 20   | 19.5 | 37   | 29   |
| 3189 12 13 | 12    | G1/4      | 5.5  | 21   | 22   | 46.5 | 33.5 |
| 3189 12 17 | 12    | G3/8      | 5.5  | 21   | 22   | 45.5 | 33.5 |



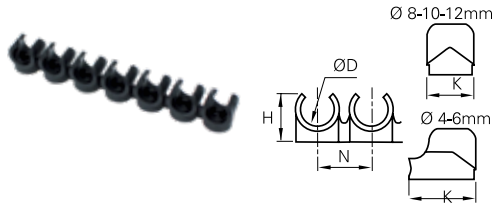
### 3159 Oscillating Male Elbow Metric Tube to BSPT

| PART NO.   | ØD MM | C BSPT | H IN | L IN | L1 IN | N IN |
|------------|-------|--------|------|------|-------|------|
| 3159 04 10 | 4     | R1/8   | 12   | 11   | 22    | 17.5 |
| 3159 06 10 | 6     | R1/8   | 14   | 14   | 26.5  | 20.5 |
| 3159 06 13 | 6     | R1/4   | 14   | 14   | 23.5  | 20.5 |
| 3159 08 10 | 8     | R1/8   | 17   | 16   | 32    | 23.5 |
| 3159 08 13 | 8     | R1/4   | 17   | 16   | 29    | 23.5 |
| 3159 08 17 | 8     | R3/8   | 17   | 16   | 25    | 23.5 |
| 3159 10 13 | 10    | R1/4   | 19   | 19.5 | 37.5  | 29   |
| 3159 10 17 | 10    | R3/8   | 19   | 19.5 | 33.5  | 29   |
| 3159 12 13 | 12    | R1/4   | 21   | 22   | 44.5  | 33.5 |
| 3159 12 17 | 12    | R3/8   | 21   | 22   | 41    | 33.5 |

### Torque/Rotation Speed

| ØD MM   | C BSPP/M5             | PART NO. |
|---------|-----------------------|----------|
| 5/32, 4 | <2.5.10 <sup>-3</sup> | 190      |
| 1/4, 6  | <4.10 <sup>-3</sup>   | 160      |
| 8       | <7.10 <sup>-3</sup>   | 120      |
| 10      | <11.10 <sup>-3</sup>  | 90       |
| 12      | <16.10 <sup>-3</sup>  | 80       |

**WARNING** These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



### CLIP Clip Strips for Tubing and Fittings

| PART NO.   | ØD TUBE        | Ø LF3000 TO BE CLIPPED | H MM | K MM | N MM | NUMBER OF CLIPS PER STRIP |
|------------|----------------|------------------------|------|------|------|---------------------------|
| CLIP 04 00 | 5/32, 4MM      |                        | 9    | 13.5 | 10.5 | 8                         |
| CLIP 06 00 | 1/4, 3/16, 6MM |                        | 10.5 | 13   | 10.5 | 8                         |
| CLIP 08 00 | 5/16, 8MM      | 5/32, 4MM              | 12.5 | 10.5 | 12   | 7                         |
| CLIP 10 00 | 3/8, 10MM      | 1/4, 6MM               | 14   | 12   | 15   | 6                         |
| CLIP 12 00 | 1/2, 12MM      |                        | 16.5 | 14   | 16.5 | 5                         |
| CLIP 14 00 | 14MM           | 5/16, 8MM              | 18   | 16   | 20.5 | 4                         |

Clip strips come complete with screws of .375 inches in length.

### 3000 70 Disconnection Tool

| PART NO.   | H1 MM | H2 MM | L MM |
|------------|-------|-------|------|
| 3000 70 00 | 25    | 20    | 96   |

In cases where access is difficult this tool can be useful, particularly if the standard release buttons have been removed. (Release buttons can only be removed on 3/16 sizes.)

### AQRT - Quick Release Tool

Makes disconnection of tube adapters and tubing a breeze.



### 7000 Joining Clips for In-Line Flow Controls and Mini Ball Valves\*

| PART NO.   | ØD IN | ØD MM |
|------------|-------|-------|
| 7000 00 05 | 5/32  | 4     |
| 7000 00 05 | 1/4   | 6     |
| 7000 00 05 | 5/16  | 8     |
| 7000 00 06 | 3/8   | 10    |
| 7000 00 06 | 1/2   | 12    |

\*Two clips are supplied with flow control.  
Order additional clips using the part numbers above.

### 3151 End Caps

| PART NO. FRACTIONAL INCH | ØD IN | ØG IN | H IN |
|--------------------------|-------|-------|------|
| 3151 53 00               | 1/8   | .33   | .55  |
| 3151 04 00               | 5/32  | .33   | .55  |
| 3151 56 00               | 1/4   | .41   | .64  |
| 3151 08 00               | 5/16  | .53   | .86  |
| 3151 60 00               | 3/8   | .53   | .88  |

| PART NO. METRIC | ØD MM | ØG MM | H MM |
|-----------------|-------|-------|------|
| 3151 04 00      | 4     | 8.5   | 14.7 |
| 3151 06 00      | 6     | 10.5  | 16.9 |
| 3151 08 00      | 8     | 13.5  | 21.9 |
| 3151 10 00      | 10    | 16    | 22.2 |
| 3151 12 00      | 12    | 19    | 27.7 |



### 3000 71 00 Tube Cutter

| PART NO.   | H IN | L IN |
|------------|------|------|
| 3000 71 00 | .98  | 3.11 |

This tool will cut all resilient plastic tube (e.g. nylon, polyurethane, braided PVC, soft rubber, etc.) from 1/8 to 1/2 and 3mm to 16mm diameter inclusive. It is designed to give a clean cut at right angles to the tube axis. A spring maintains the cutter in the closed position.

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