

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

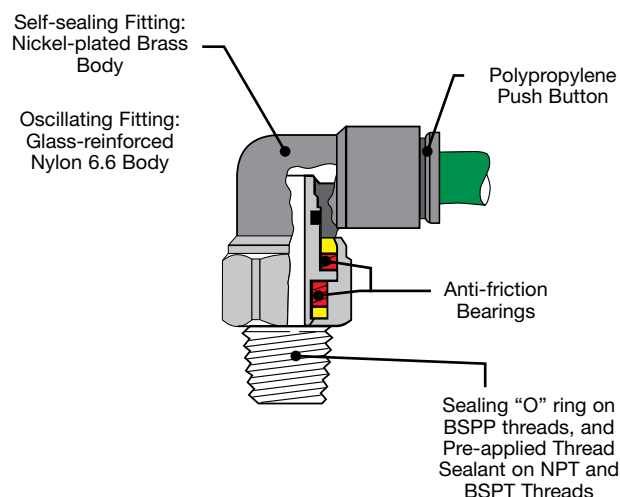
Applications:

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

Specifications:

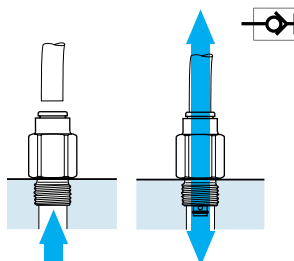
Compatible Fluids	Compressed air Other fluids: please consult us
Working Pressure	290 psi (20 bar) 145 psi (10 bar) self sealing fittings
Vacuum Capability	28" Hg
Working Temperature	-4° to 176° F (-20° to +80° C)

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).

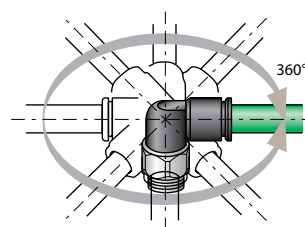


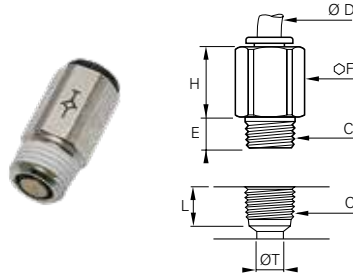
Installation Configurations

Self-Sealing Fittings



Oscillating Fittings

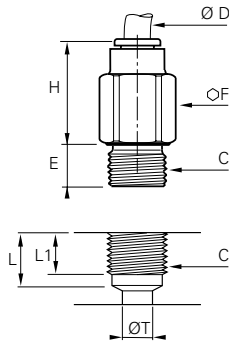




3091 Self-Sealing Male Fitting NPT or BSPT

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

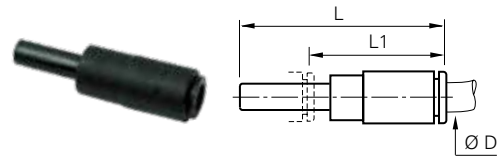


3391 Self-Sealing Male Fitting Metric Tube to BSPP

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

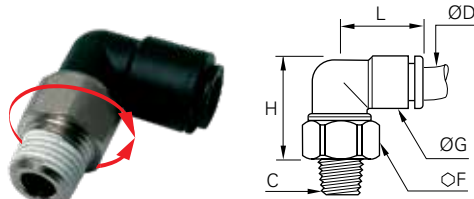
ØD MM	C BSPP	E MM	F MM	H MM
4	G1/8	7.5	6	5
6	G1/8	9	6	7.5
8	G1/8	10	6	7.5
8	G1/4	11	8	9
10	G 3/8	13	11	10



3160 Self-Sealing Plug-in Fitting Metric

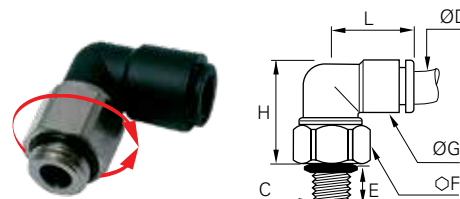
PART NO.	ØD MM	L MM	L1 MM
3160 04 00	4	46	33.5
3160 06 00	6	53.5	31
3160 08 00	8	58	31

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



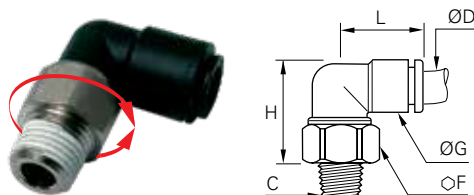
3159 Oscillating Male Elbow Fractional Inch Tube to NPT

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

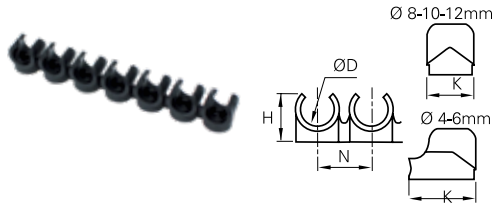


3159 Oscillating Male Elbow Metric Tube to BSPT

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

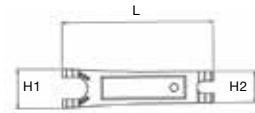
ØD MM	C BSPP/M5	PART NO.
5/32, 4	<2.5.10 ⁻³	190
1/4, 6	<4.10 ⁻³	160
8	<7.10 ⁻³	120
10	<11.10 ⁻³	90
12	<16.10 ⁻³	80



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*

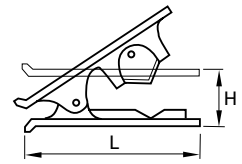
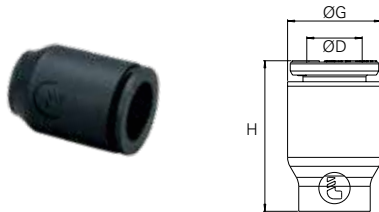
PART NO.	ØD IN	ØD MM
7000 00 05	5/32	4
7000 00 05	1/4	6
7000 00 05	5/16	8
7000 00 06	3/8	10
7000 00 06	1/2	12

*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.

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.