

# LF 3800/LF 3900 Push-In Fittings

Parker Legris has developed two ranges of **stainless steel fittings (LF 3800 or LF 3900 in full 316L)** for conveying corrosive fluids in **aggressive environments**. These ranges provide two complementary levels of corrosion resistance and a **hygienic external design**.

## Product Advantages

### High Resistance to Aggressive Environments

LF 3800: excellent for conveying aggressive fluids  
 LF 3900: maximum chemical resistance to internal and external corrosion  
 Hygienic external design for reducing retention zones  
 Easy cleaning in situ  
 Proven gripping technology

### Wide Range of Applications

Perfect for permanent contact with foodstuffs  
 Compatible with frequent sterilization  
 Excellent in saline environments and outdoor applications  
 Resistant to industrial cleaning agents and detergents  
 Compatible with polymer and grooved stainless steel tubing  
 One fitting for many applications: optimised stock management

### Reliability & Safety

All-metal product allowing detection of all components  
 Full bore, with minimal pressure drop  
 Resistant to hammering, mechanical shock and impulse  
 Manual connection and disconnection, no tools required  
 100% leak-tested in production  
 Date coding to guarantee quality and traceability  
 IP 51 bulkhead: complete protection against ingress in food and non-food zones



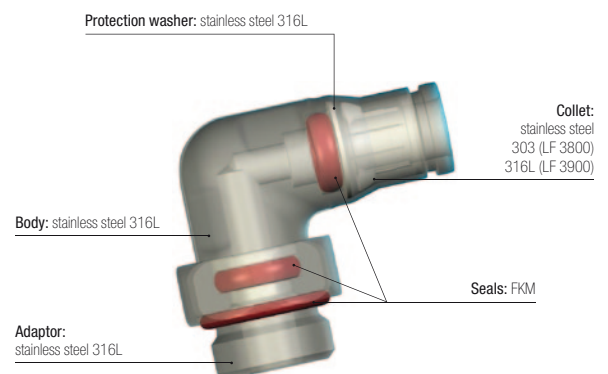
**Applications**  
 Food Process  
 Paper Industry  
 Petrochemical  
 Pharmaceutical  
 Chemical  
 Medical

## Technical Characteristics

<b>Compatible Fluids</b>	All fluids compatible with the fitting and tubing component materials					
<b>Working Pressure</b>	Vacuum to 30 bar (20 bar: 3879/3979 and 3889/3989)					
<b>Working Temperature</b>	-20° to +150°C					
<b>Adaptor Tightening Torque</b>	Threads	M5x0.8	G1/8	G1/4	G3/8	G1/2
	daN.m	0.16	0.8	1.2	3	3.5
<b>Bulkhead Tightening Torque</b>	Ø (mm)	4	6	8	10	12
	daN.m min. max.	0.5 0.9	0.5 0.9	0.6 1	0.6 1	0.6 1

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).

### Component Materials



### Silicone-free

### Regulations


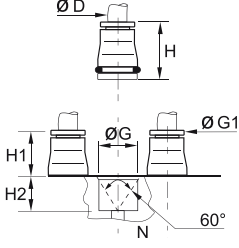


ISO 14743 Pneumatic transmissions, push-in fittings for thermoplastic tubing  
 DI: 97/23/EC (PED)  
 DI: 2002/95/EC (RoHS), 2011/65/EC  
 DI: 94/9/EC (ATEX)

RG: 1907/2006 (REACH)  
 UL94 V-0: Seal  
 RG: 21 CFR (FDA)  
 RG: 1935/2004/EC  
 USDA NSF H1: Grease

# Stud Fittings

## 3800/3900


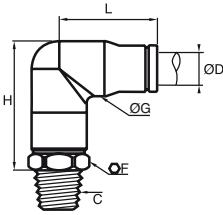


### Cartridge

	Stainless steel 316L, FKM 	ØD			L	G	G1	H	H1	H2	kg
		4	<a href="#">3800 04 00</a>	<a href="#">3900 04 00</a>	9.8	8	17	8.5	8.5	11	0.006
6	<a href="#">3800 06 00</a>	<a href="#">3900 06 00</a>	12.1	10	19	10.5	8.5	13.5	0.008		
8	<a href="#">3800 08 00</a>	<a href="#">3900 08 00</a>	14.8	13	21	12.5	8.5	16	0.012		
10	<a href="#">3800 10 00</a>	<a href="#">3900 10 00</a>	17.5	15	24.5	14	10.5	20	0.019		
12	<a href="#">3800 12 00</a>	<a href="#">3900 12 00</a>	20	17	25	14.5	10.5	22.5	0.023		

Cavity dimensions are available in Chapter 2.  
3800: collet in stainless steel 303  
3900: collet in stainless steel 316L

## 3809/3909


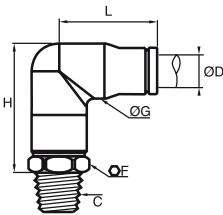

### Stud Elbow, Male BSPT Thread

	Stainless steel 316L, FKM 	ØD	C			F	G	H	L	kg
		4	R1/8	<a href="#">3809 04 10</a>	<a href="#">3909 04 10</a>	10	10	23.5	16.5	0.020
6	R1/8	<a href="#">3809 06 10</a>	<a href="#">3909 06 10</a>	13	12	27.5	20	0.031		
	R1/4	<a href="#">3809 06 13</a>	<a href="#">3909 06 13</a>	14	12	27.5	25	0.036		
8	R1/8	<a href="#">3809 08 10</a>	<a href="#">3909 08 10</a>	14	15	32	25	0.041		
	R1/4	<a href="#">3809 08 13</a>	<a href="#">3909 08 13</a>	14	14.5	34	25	0.046		
10	R1/4	<a href="#">3809 10 13</a>	<a href="#">3909 10 13</a>	19	17.5	37.5	27.5	0.068		
	R3/8	<a href="#">3809 10 17</a>	<a href="#">3909 10 17</a>	19	17.5	37.5	27.5	0.069		

The body swivels for positioning purposes.

## 3809


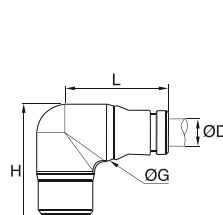


### Stud Elbow, Male NPT Thread

	Stainless steel 316L, FKM 	ØD	C		F	G	H	L	kg
		4	NPT1/8	<a href="#">3809 04 11</a>	11	10	25.5	18.5	0.021
6	NPT1/8	<a href="#">3809 06 11</a>	13	12.5	29	22.5	0.025		
	NPT1/4	<a href="#">3809 06 14</a>	14	12.5	29	22.5	0.030		
8	NPT1/8	<a href="#">3809 08 11</a>	14	15	34	24	0.041		
	NPT1/4	<a href="#">3809 08 14</a>	14	15	34	24	0.046		
10	NPT1/4	<a href="#">3809 10 14</a>	19	17.5	39.5	30	0.057		
	NPT3/8	<a href="#">3809 10 18</a>	19	17.5	39.5	30	0.071		

The body swivels for positioning purposes.

## 3899/3999

### Stud Elbow, Male BSPP and Metric Thread

	Stainless steel 316L, FKM 	ØD	C			F	G	H	L	kg
		4	M5x0.8	<a href="#">3899 04 19</a>	<a href="#">3999 04 19</a>	10	10	26	18	0.019
G1/8	<a href="#">3899 04 10</a>		<a href="#">3999 04 10</a>	13	10	27	19	0.021		
G1/4	<a href="#">3899 04 13</a>		<a href="#">3999 04 13</a>	17	10	27	19	0.018		
6	M5x0.8	<a href="#">3899 06 19</a>	<a href="#">3999 06 19</a>	13	12	33	24	0.031		
	G1/8	<a href="#">3899 06 10</a>	<a href="#">3999 06 10</a>	6	12	33	24	0.031		
	G1/4	<a href="#">3899 06 13</a>	<a href="#">3999 06 13</a>	17	12	32	24	0.035		
8	G1/8	<a href="#">3899 08 10</a>	<a href="#">3999 08 10</a>	14	15	35	25	0.039		
	G1/4	<a href="#">3899 08 13</a>	<a href="#">3999 08 13</a>	17	15	35	25	0.044		
	G3/8	<a href="#">3899 08 17</a>	<a href="#">3999 08 17</a>	21	15	34.5	25	0.048		
10	G1/4	<a href="#">3899 10 13</a>	<a href="#">3999 10 13</a>	19	17	43	31	0.068		
	G3/8	<a href="#">3899 10 17</a>	<a href="#">3999 10 17</a>	21	17	42	31	0.072		

The body swivels for positioning purposes.

Stud standpipe 3821, 3921, 3831, 3931 can be used as illustrated, allowing:

- stock optimisation
- installation of tees and elbows where required

