

# LF 3000® Push-In Fittings

The LF 3000® range, with its wide variety of shapes and configurations, allows you to find **the perfect product to meet your needs** and thus **optimise the use** of your equipment.

## Product Advantages

### World-Class Performance

- 40 years of expertise
- Full bore for optimum flow
- Ideal for vacuum or pressure applications
- Automatic sealing guaranteed, in both static and dynamic applications
- Materials with high resistance
- Durability of product and equipment

### Optimal Design

- 100% leak-tested in production
- Date coding to guarantee quality and traceability
- Compact and aesthetic design: reduced dimensions for space-saving
- Tube fixed during connection, preventing leakage
- Conforms to ISO 14743
- Excellent vacuum performance thanks to the patented sealing technology
- Lightweight: reduced energy consumption of operating systems
- Parallel threaded fitting with a patented captive O-ring seal
- Maximum flexibility due to the wide product range



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

Applications

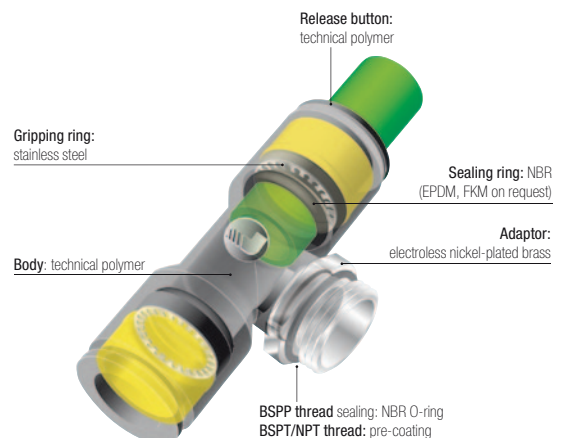
## Technical Characteristics

<b>Compatible Fluids</b>	Compressed air Other fluids: please consult us
<b>Working Pressure</b>	Vacuum to 20 bar
<b>Working Temperature</b>	-20°C to +80°C

Tightening Torque (daN.m)	Threads								
	M3 x0.5	M5 x0.8	M7 x1	M10 x1	M12 x1.5	G1/8	G1/4	G3/8	G1/2
	0.06	0.16	0.8	0.8	1.1	0.8	1.2	3	3.5

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


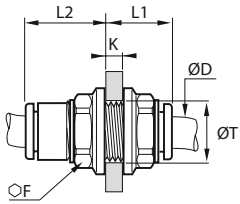

### Regulations

ISO 14743: Pneumatic fluid power, push-in connectors for thermoplastic tubes  
DI: 97/23/EC (PED)


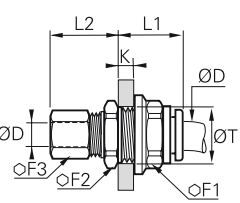

DI: 2002/95/EC (RoHS), 2011/65/EC  
DI: 1907/2006 (REACH)

# Bulkhead Connector Fittings

## 3116 Equal Bulkhead Connector


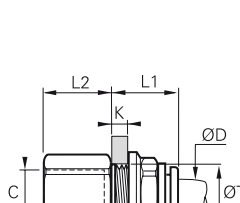

	Technical polymer, NBR		<b>ØD</b>		<b>F</b>	<b>K<sub>max</sub></b>	<b>L1</b>	<b>L2</b>	<b>ØT<sub>min</sub></b>	<b>kg</b>																																						
	<table border="1"> <tr><td>4</td><td><a href="#">3116 04 00</a></td><td>13</td><td>5.5</td><td>15</td><td>10</td><td>10.5</td><td>0.003</td></tr> <tr><td>6</td><td><a href="#">3116 06 00</a></td><td>15</td><td>8.5</td><td>18</td><td>10.5</td><td>12.5</td><td>0.004</td></tr> <tr><td>8</td><td><a href="#">3116 08 00</a></td><td>18</td><td>14.5</td><td>25</td><td>13.5</td><td>15.5</td><td>0.007</td></tr> <tr><td>10</td><td><a href="#">3116 10 00</a></td><td>22</td><td>14.5</td><td>27.5</td><td>15.5</td><td>18.5</td><td>0.015</td></tr> <tr><td>12</td><td><a href="#">3116 12 00</a></td><td>26</td><td>18.5</td><td>33</td><td>18</td><td>22.5</td><td>0.019</td></tr> <tr><td>14</td><td><a href="#">3116 14 00</a></td><td>29</td><td>20.5</td><td>37.5</td><td>20.5</td><td>25.5</td><td>0.028</td></tr> </table>		4	<a href="#">3116 04 00</a>	13	5.5	15	10	10.5	0.003	6	<a href="#">3116 06 00</a>	15	8.5	18	10.5	12.5	0.004	8	<a href="#">3116 08 00</a>	18	14.5	25	13.5	15.5	0.007	10	<a href="#">3116 10 00</a>	22	14.5	27.5	15.5	18.5	0.015	12	<a href="#">3116 12 00</a>	26	18.5	33	18	22.5	0.019	14	<a href="#">3116 14 00</a>	29	20.5	37.5	20.5
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## 3146 Equal Mixed Bulkhead Connector


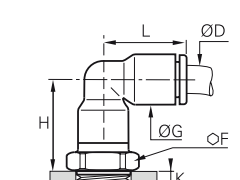

	Nickel-plated brass, NBR		<b>ØD</b>		<b>F1</b>	<b>F2</b>	<b>F3</b>	<b>K<sub>max</sub></b>	<b>L1</b>	<b>L2</b>	<b>ØT<sub>min</sub></b>	<b>kg</b>																																																
	<table border="1"> <tr><td>4</td><td><a href="#">3146 04 00</a></td><td>13</td><td>13</td><td>10</td><td>7</td><td>17.5</td><td>17.5</td><td>10.5</td><td>0.018</td></tr> <tr><td>6</td><td><a href="#">3146 06 00</a></td><td>15</td><td>17</td><td>13</td><td>8</td><td>19</td><td>18</td><td>12.5</td><td>0.029</td></tr> <tr><td>8</td><td><a href="#">3146 08 00</a></td><td>18</td><td>19</td><td>14</td><td>8</td><td>20.5</td><td>20.5</td><td>15.5</td><td>0.036</td></tr> <tr><td>10</td><td><a href="#">3146 10 00</a></td><td>22</td><td>22</td><td>19</td><td>8.5</td><td>23</td><td>24.5</td><td>18.5</td><td>0.065</td></tr> <tr><td>12</td><td><a href="#">3146 12 00</a></td><td>26</td><td>25</td><td>22</td><td>8.5</td><td>27</td><td>25</td><td>22.5</td><td>0.096</td></tr> <tr><td>14</td><td><a href="#">3146 14 00</a></td><td>29</td><td>29</td><td>24</td><td>10.5</td><td>27</td><td>27</td><td>25.5</td><td>0.125</td></tr> </table>		4	<a href="#">3146 04 00</a>	13	13	10	7	17.5	17.5	10.5	0.018	6	<a href="#">3146 06 00</a>	15	17	13	8	19	18	12.5	0.029	8	<a href="#">3146 08 00</a>	18	19	14	8	20.5	20.5	15.5	0.036	10	<a href="#">3146 10 00</a>	22	22	19	8.5	23	24.5	18.5	0.065	12	<a href="#">3146 12 00</a>	26	25	22	8.5	27	25	22.5	0.096	14	<a href="#">3146 14 00</a>	29	29	24	10.5	27	27
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Push-in connection with compression fitting

## 3136 Bulkhead Connector, Female BSPP Thread

	Nickel-plated brass, NBR		<b>ØD</b>	<b>C</b>		<b>E</b>	<b>F1</b>	<b>F2</b>	<b>K<sub>max</sub></b>	<b>L1</b>	<b>L2</b>	<b>ØT<sub>min</sub></b>	<b>kg</b>																																																																																																							
	<table border="1"> <tr><td rowspan="2">4</td><td>G1/8</td><td><a href="#">3136 04 10</a></td><td>9.5</td><td>13</td><td>13</td><td>7</td><td>17</td><td>11.5</td><td>10.5</td><td>0.015</td></tr> <tr><td>G1/4</td><td><a href="#">3136 04 13</a></td><td>13.5</td><td>13</td><td>16</td><td>7</td><td>17</td><td>15.5</td><td>10.5</td><td>0.021</td></tr> <tr><td rowspan="2">6</td><td>G1/8</td><td><a href="#">3136 06 10</a></td><td>9.5</td><td>15</td><td>15</td><td>8</td><td>19</td><td>10.5</td><td>12.5</td><td>0.020</td></tr> <tr><td>G1/4</td><td><a href="#">3136 06 13</a></td><td>13.5</td><td>15</td><td>17</td><td>7</td><td>19</td><td>15.5</td><td>12.5</td><td>0.027</td></tr> <tr><td rowspan="2">8</td><td>G1/8</td><td><a href="#">3136 08 10</a></td><td>9.5</td><td>18</td><td>17</td><td>8</td><td>20.5</td><td>10.5</td><td>15.5</td><td>0.029</td></tr> <tr><td>G1/4</td><td><a href="#">3136 08 13</a></td><td>13.5</td><td>18</td><td>17</td><td>8</td><td>20.5</td><td>14.5</td><td>15.5</td><td>0.029</td></tr> <tr><td rowspan="2">10</td><td>G3/8</td><td><a href="#">3136 10 17</a></td><td>14</td><td>22</td><td>22</td><td>8.5</td><td>23</td><td>16</td><td>18.5</td><td>0.051</td></tr> <tr><td>G3/8</td><td><a href="#">3136 12 17</a></td><td>14</td><td>26</td><td>24</td><td>8.5</td><td>27</td><td>16</td><td>22.5</td><td>0.078</td></tr> <tr><td rowspan="2">12</td><td>G1/2</td><td><a href="#">3136 12 21</a></td><td>19.5</td><td>26</td><td>27</td><td>8.5</td><td>27</td><td>21.5</td><td>22.5</td><td>0.097</td></tr> <tr><td>G3/8</td><td><a href="#">3136 16 17</a></td><td>12</td><td>29</td><td>29</td><td>10.5</td><td>30</td><td>15</td><td>27.5</td><td>0.125</td></tr> <tr><td>16</td><td>G1/2</td><td><a href="#">3136 16 21</a></td><td>15</td><td>29</td><td>29</td><td>10.5</td><td>30</td><td>19.5</td><td>27.5</td><td>0.126</td></tr> </table>		4	G1/8	<a href="#">3136 04 10</a>	9.5	13	13	7	17	11.5	10.5	0.015	G1/4	<a href="#">3136 04 13</a>	13.5	13	16	7	17	15.5	10.5	0.021	6	G1/8	<a href="#">3136 06 10</a>	9.5	15	15	8	19	10.5	12.5	0.020	G1/4	<a href="#">3136 06 13</a>	13.5	15	17	7	19	15.5	12.5	0.027	8	G1/8	<a href="#">3136 08 10</a>	9.5	18	17	8	20.5	10.5	15.5	0.029	G1/4	<a href="#">3136 08 13</a>	13.5	18	17	8	20.5	14.5	15.5	0.029	10	G3/8	<a href="#">3136 10 17</a>	14	22	22	8.5	23	16	18.5	0.051	G3/8	<a href="#">3136 12 17</a>	14	26	24	8.5	27	16	22.5	0.078	12	G1/2	<a href="#">3136 12 21</a>	19.5	26	27	8.5	27	21.5	22.5	0.097	G3/8	<a href="#">3136 16 17</a>	12	29	29	10.5	30	15	27.5	0.125	16	G1/2	<a href="#">3136 16 21</a>	15	29	29	10.5	30	19.5
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## 3139 Equal Bulkhead Elbow

	Technical polymer, nickel-plated brass, NBR		<b>ØD</b>		<b>F</b>	<b>G</b>	<b>H</b>	<b>K<sub>max</sub></b>	<b>L</b>	<b>ØT<sub>min</sub></b>	<b>kg</b>																																											
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The body swivels for positioning purposes.