

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

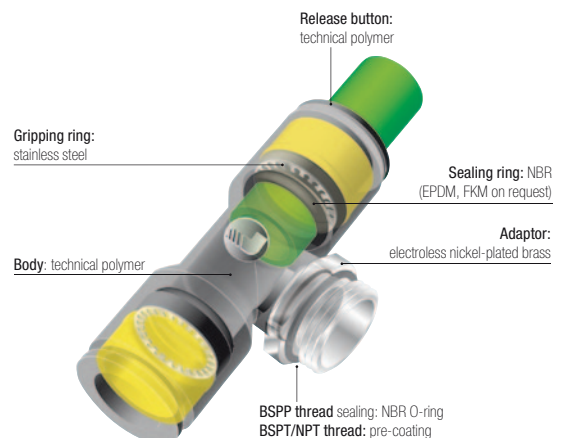
Technical Characteristics

Compatible Fluids	Compressed air Other fluids: please consult us
Working Pressure	Vacuum to 20 bar
Working Temperature	-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


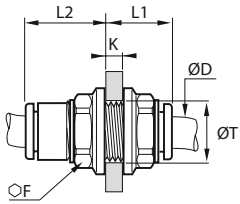

Regulations

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


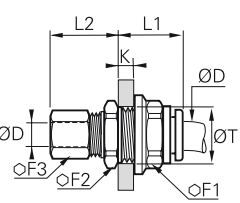

DI: 2002/95/EC (RoHS), 2011/65/EC
DI: 1907/2006 (REACH)

Bulkhead Connector Fittings

3116 Equal Bulkhead Connector


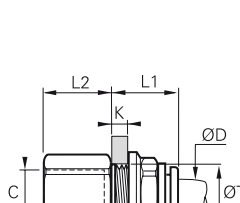

	Technical polymer, NBR		ØD		F	K_{max}	L1	L2	ØT_{min}	kg																																						
	<table border="1"> <tr><td>4</td><td>3116 04 00</td><td>13</td><td>5.5</td><td>15</td><td>10</td><td>10.5</td><td>0.003</td></tr> <tr><td>6</td><td>3116 06 00</td><td>15</td><td>8.5</td><td>18</td><td>10.5</td><td>12.5</td><td>0.004</td></tr> <tr><td>8</td><td>3116 08 00</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>3116 10 00</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>3116 12 00</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>3116 14 00</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	3116 04 00	13	5.5	15	10	10.5	0.003	6	3116 06 00	15	8.5	18	10.5	12.5	0.004	8	3116 08 00	18	14.5	25	13.5	15.5	0.007	10	3116 10 00	22	14.5	27.5	15.5	18.5	0.015	12	3116 12 00	26	18.5	33	18	22.5	0.019	14	3116 14 00	29	20.5	37.5	20.5
4	3116 04 00	13	5.5	15	10	10.5	0.003																																									
6	3116 06 00	15	8.5	18	10.5	12.5	0.004																																									
8	3116 08 00	18	14.5	25	13.5	15.5	0.007																																									
10	3116 10 00	22	14.5	27.5	15.5	18.5	0.015																																									
12	3116 12 00	26	18.5	33	18	22.5	0.019																																									
14	3116 14 00	29	20.5	37.5	20.5	25.5	0.028																																									

3146 Equal Mixed Bulkhead Connector


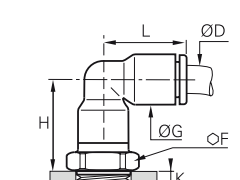

	Nickel-plated brass, NBR		ØD		F1	F2	F3	K_{max}	L1	L2	ØT_{min}	kg																																																
	<table border="1"> <tr><td>4</td><td>3146 04 00</td><td>13</td><td>13</td><td>10</td><td>7</td><td>17.5</td><td>17.5</td><td>10.5</td><td>0.018</td></tr> <tr><td>6</td><td>3146 06 00</td><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>3146 08 00</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>3146 10 00</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>3146 12 00</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>3146 14 00</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	3146 04 00	13	13	10	7	17.5	17.5	10.5	0.018	6	3146 06 00	15	17	13	8	19	18	12.5	0.029	8	3146 08 00	18	19	14	8	20.5	20.5	15.5	0.036	10	3146 10 00	22	22	19	8.5	23	24.5	18.5	0.065	12	3146 12 00	26	25	22	8.5	27	25	22.5	0.096	14	3146 14 00	29	29	24	10.5	27	27
4	3146 04 00	13	13	10	7	17.5	17.5	10.5	0.018																																																			
6	3146 06 00	15	17	13	8	19	18	12.5	0.029																																																			
8	3146 08 00	18	19	14	8	20.5	20.5	15.5	0.036																																																			
10	3146 10 00	22	22	19	8.5	23	24.5	18.5	0.065																																																			
12	3146 12 00	26	25	22	8.5	27	25	22.5	0.096																																																			
14	3146 14 00	29	29	24	10.5	27	27	25.5	0.125																																																			

Push-in connection with compression fitting

3136 Bulkhead Connector, Female BSPP Thread

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

3139 Equal Bulkhead Elbow

	Technical polymer, nickel-plated brass, NBR		ØD		F	G	H	K_{max}	L	ØT_{min}	kg																																											
	<table border="1"> <tr><td>4</td><td>3139 04 00</td><td>13</td><td>8.5</td><td>17</td><td>6.5</td><td>14.5</td><td>10.5</td><td>0.014</td></tr> <tr><td>6</td><td>3139 06 00</td><td>15</td><td>10.5</td><td>19.5</td><td>7</td><td>17.5</td><td>12.5</td><td>0.021</td></tr> <tr><td>8</td><td>3139 08 00</td><td>18</td><td>13.5</td><td>24</td><td>8</td><td>23</td><td>15.5</td><td>0.032</td></tr> <tr><td>10</td><td>3139 10 00</td><td>22</td><td>16</td><td>28</td><td>8.5</td><td>26</td><td>18.5</td><td>0.050</td></tr> <tr><td>12</td><td>3139 12 00</td><td>26</td><td>19</td><td>33</td><td>8.5</td><td>31</td><td>22.5</td><td>0.086</td></tr> <tr><td>14</td><td>3139 14 00</td><td>29</td><td>25.5</td><td>37.5</td><td>10.5</td><td>36</td><td>25.5</td><td>0.116</td></tr> </table>		4	3139 04 00	13	8.5	17	6.5	14.5	10.5	0.014	6	3139 06 00	15	10.5	19.5	7	17.5	12.5	0.021	8	3139 08 00	18	13.5	24	8	23	15.5	0.032	10	3139 10 00	22	16	28	8.5	26	18.5	0.050	12	3139 12 00	26	19	33	8.5	31	22.5	0.086	14	3139 14 00	29	25.5	37.5	10.5	36
4	3139 04 00	13	8.5	17	6.5	14.5	10.5	0.014																																														
6	3139 06 00	15	10.5	19.5	7	17.5	12.5	0.021																																														
8	3139 08 00	18	13.5	24	8	23	15.5	0.032																																														
10	3139 10 00	22	16	28	8.5	26	18.5	0.050																																														
12	3139 12 00	26	19	33	8.5	31	22.5	0.086																																														
14	3139 14 00	29	25.5	37.5	10.5	36	25.5	0.116																																														

The body swivels for positioning purposes.