

# C 9000 Polymer Quick-Acting Safety Coupler Range

## C 9000 Polymer Quick-Acting Safety Couplers

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# C 9000 Polymer Quick-Acting Safety Couplers

This range of ergonomic polymer couplers has been designed for **the safety of operators and machinery** while giving very high **energy efficiency performance**. Available in three profile standards, it is perfectly suited for any type of installation.

## Product Advantages

<b>Safety &amp; Reliability</b>	<p>Prevents risk of whiplash</p> <p>Quick-acting vent allowing disconnection to be carried out in total safety</p> <p>Rotating sleeve to avoid risk of accidental disconnection</p> <p>Low connection/disconnection force even under pressure</p> <p>Polymer sleeve protects equipment from scratching</p> <p>Protective spiral over the tube prevents kinking</p>
<b>Performance</b>	<p>Very high flow and low pressure drop</p> <p>100% leak-tested in production</p> <p>Date coding to guarantee quality and traceability</p> <p>Robust impact-resistant material</p> <p>Optimum energy efficiency</p> <p>Long-term reliability</p>
<b>Easy-to-Use</b>	<p>Immediate identification by clear marking on each model showing:</p> <ul style="list-style-type: none"> <li>• profile of the compatible male probe</li> <li>• type part number</li> </ul> <p>Compatible with male probes conforming to:</p> <ul style="list-style-type: none"> <li>• ISO B profile</li> <li>• European profile</li> <li>• ARO profile</li> </ul>



**Applications**

Workshops  
Cleaning  
Blowing  
Pneumatics  
Air-Operated Tools  
Ring Main Circuits  
Packaging

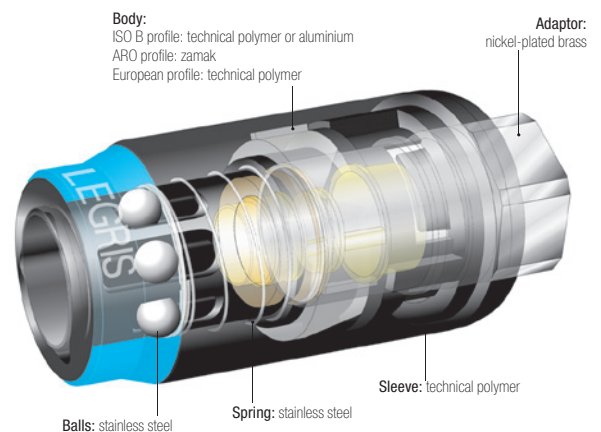
## Technical Characteristics

<b>Compatible Fluids</b>	Compressed air
<b>Working Pressure</b>	0 to 16 bar
<b>Working Temperature</b>	-20°C to +60°C

### Regulations

DI: 97/23/EC (PED)  
 DI: 2002/95/EC (RoHS), 2011/65/EC  
 DI: 1907/2006 (REACH)  
 ISO 4414 Pneumatic Fluid Power: General Rules Relating to Systems  
 DIN EN 983 Safety Standard for Pneumatics

### Component Materials

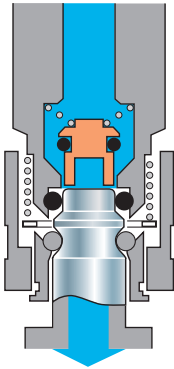


**Silicone-free**

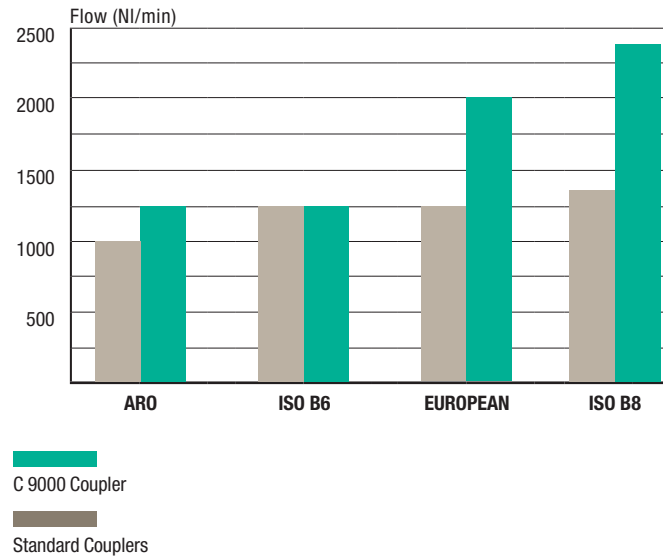
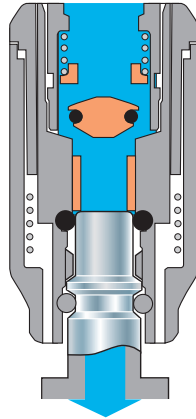
# C 9000 Polymer Quick-Acting Safety Couplers

## C 9000 Technology and Flow Rates

"Typical" quick-acting coupler  
Standard "poppet" technology  
Flow: 1400 NI/min



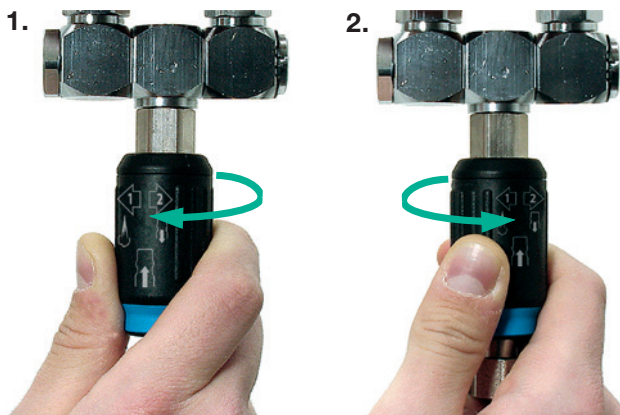
C 9000 quick-acting coupler  
"Optimal flow" technology  
Flow: 2400 NI/min



Measurements carried out in accordance with ISO 6358 at a pressure of 6 bar, pressure drop < 0.7 bar

## Operation

### Operation



Disconnecting the probe

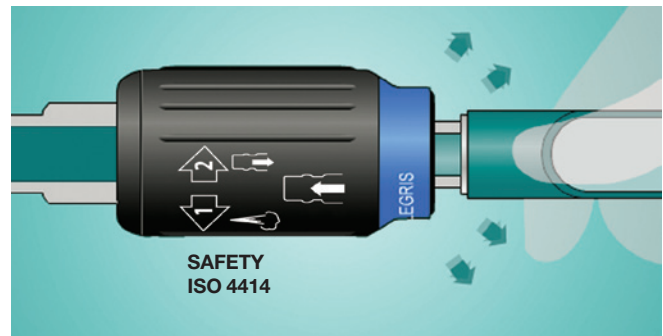
Rotation, arrow 1: circuit vented on probe side.

Rotation, arrow 2: probe disconnected from the body.

Connecting the probe

The sleeve does not need to be rotated to connect the probe.

### Venting



ISO B6 profile, recoil tubing (I.D. 6 mm, length 6 m)

Venting time = 350 ms (transition from 6 bar to 0.2 bar)

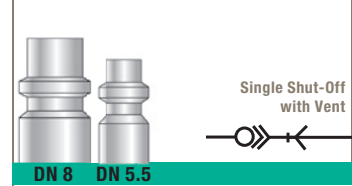
ISO B8 profile, PVC tubing (I.D. 10 mm, length 25 m)

Venting time = 860 ms (transition from 6 bar to 0.2 bar)


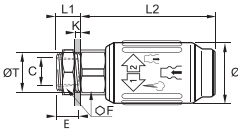

Even with longer lengths of tubing, the vent time of the C 9000 coupler can be less than 1 second.



# ISO B Profile


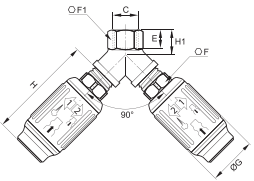



## 9416U Coupler, Bulkhead Mountable, Female BSPP Thread

	Technical polymer, nickel-plated brass, NBR 	(DN) <b>C</b> 	<b>E</b>	<b>F</b>	<b>G</b>	<b>K<sub>max</sub></b>	<b>L1</b>	<b>L2</b>	<b>ØT<sub>min</sub></b>	<b>kg</b>
		5.5 G1/4 <a href="#">9416U06 13</a>	12	22	31.5	6	12.5	68.5	18.5	0.105
		8 G3/8 <a href="#">9416U08 17</a>	12	24	36.5	7	14.5	76	22.5	0.150


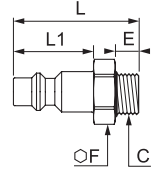

C 9000 Series ISO B (DN 5.5): single shut-off = 1250 NI/min  
 C 9000 Series ISO B (DN 8): single shut-off = 2400 NI/min

## 9440U Y Coupler, Female BSPP Thread

	Technical polymer, nickel-plated brass, NBR 	(DN) <b>C</b> 	<b>E</b>	<b>F</b>	<b>F1</b>	<b>G</b>	<b>H</b>	<b>H1</b>	<b>kg</b>
		5.5 G3/8 <a href="#">9440U06 17</a>	11.5	19	20	31.5	70	16	0.207
		8 G1/2 <a href="#">9440U08 21</a>	14	22	25	36.5	80	19	0.352


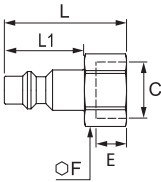

C 9000 Series ISO B (DN 5.5): single shut-off = 1250 NI/min  
 C 9000 Series ISO B (DN 8): single shut-off = 2400 NI/min

## 9087U Probe, Straight-Through, Male BSPP Thread

	Nickel-plated steel, technical polymer 	(DN) <b>C</b> 	<b>E</b>	<b>F</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
		G1/4 <a href="#">9087U06 13</a>	9	17	38	24	0.025
		5.5 G3/8 <a href="#">9087U06 17</a>	9	19	38	24	0.032
		G1/2 <a href="#">9087U06 21</a>	12	22	42	24	0.048
		G1/4 <a href="#">9087U08 13</a>	9	17	38	24	0.030
		8 G3/8 <a href="#">9087U08 17</a>	9	19	39	24	0.036
G1/2 <a href="#">9087U08 21</a>	12	22	42	24	0.058		


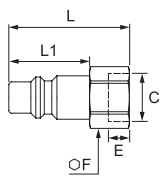

Probe without shut-off

## 9086U Probe, Straight-Through, Female BSPP Thread

	Nickel-plated steel 	(DN) <b>C</b> 	<b>E</b>	<b>F</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
		G1/4 <a href="#">9086 23 13</a>	9	17	36	24	0.025
		5.5 G3/8 <a href="#">9086 23 17</a>	9	19	36	24	0.025
		G1/2 <a href="#">9086 23 21</a>	12	24	39	24	0.039

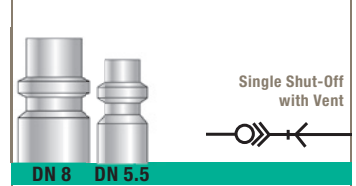
Probe without shut-off

## 9086U Probe, Straight-Through, Female BSPP Thread


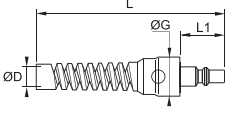

	Nickel-plated steel 	(DN) <b>C</b> 	<b>E</b>	<b>F</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
		G1/4 <a href="#">9086 30 13</a>	10	17	40	28	0.032
		8.5 G3/8 <a href="#">9086 30 17</a>	10	19	42	28	0.035
		G1/2 <a href="#">9086 30 21</a>	12	24	43	28	0.046

Probe without shut-off  
 30 Series probe (DN 8.5) compatible with ISO B series C 9000 couplers (DN 8)


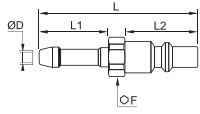

# ISO B Profile



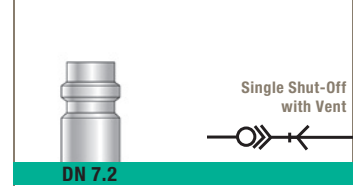
## 9080U Probe, Straight-Through, LF 3000® Push-In Connection, with Spiral Protection Spring

	Nickel-plated steel, NBR 		<b>DN</b>	<b>ØD</b>		<b>G</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
			5.5	8	<a href="#">9080U06 08</a>	24	112	24	0.052
				10	<a href="#">9080U06 10</a>	24	112	24	0.044
			8	10	<a href="#">9080U08 10</a>	24	114	26	0.095
				12	<a href="#">9080U08 12</a>	29.5	125	26	0.096
Probe without shut-off									


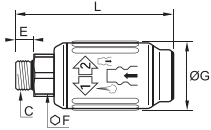


## 9094U Probe, Straight-Through, with Hosetail

	Nickel-plated steel 		<b>DN</b>	<b>ØD</b>		<b>F</b>	<b>L</b>	<b>L1</b>	<b>L2</b>	<b>kg</b>
			5.5	6	<a href="#">9094U06 06</a>	14	51	24	25	0.016
				8	<a href="#">9094U06 08</a>	14	51	27	25	0.017
				10	<a href="#">9094U06 10</a>	14	51	24	25	0.018
			8	8	<a href="#">9094U08 08</a>	17	51	24	25	0.027
				10	<a href="#">9094U08 10</a>	17	51	27	25	0.028
				13	<a href="#">9094U08 13</a>	17	51	24	25	0.031
Probe without shut-off										

# European Profile


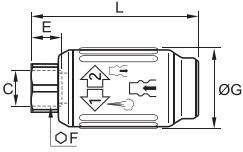




## 9401E Coupler, Male BSPP Thread

	Technical polymer, nickel-plated brass, NBR 		<b>C</b>		<b>E</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>								
										G1/4	<a href="#">9401E07 13</a>	6.5	22	36.5	80	0.124	
										7.2	G3/8	<a href="#">9401E07 17</a>	7.5	22	36.5	81	0.122
											G1/2	<a href="#">9401E07 21</a>	9	25	36.5	83.5	0.136


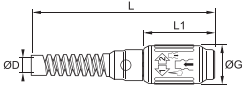


C 9000 Series: single shut-off = 2000 NI/min

## 9414E Coupler, Female BSPP Thread

	Technical polymer, nickel-plated brass, NBR 		<b>C</b>		<b>E</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>								
										G1/4	<a href="#">9414E07 13</a>	12	22	36.5	73	0.118	
										7.2	G3/8	<a href="#">9414E07 17</a>	12	22	36.5	73	0.109
											G1/2	<a href="#">9414E07 21</a>	15	27	36.5	78	0.130


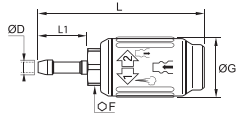


C 9000 Series: single shut-off = 2000 NI/min

## 9410E Coupler, LF 3000® Push-In Connection, with Spiral Protection Spring

	Technical polymer, nickel-plated brass, NBR 		<b>ØD</b>		<b>G</b>	<b>L</b>	<b>L1</b>	<b>kg</b>						
									10	<a href="#">9410E07 10</a>	36.5	151	63	0.175
									7.2	12	<a href="#">9410E07 12</a>	36.5	151	63


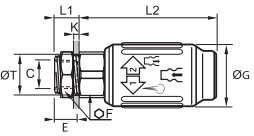


C 9000 Series: single shut-off = 2000 NI/min

## 9421E Coupler with Hosetail

	Technical polymer, nickel-plated brass, NBR 		<b>ØD</b>		<b>F</b>	<b>G</b>	<b>L</b>	<b>L1</b>	<b>kg</b>								
										8	<a href="#">9421E07 08</a>	22	36.5	93	26	0.113	
										7.2	10	<a href="#">9421E07 10</a>	22	36.5	93	26	0.114
											13	<a href="#">9421E07 13</a>	22	36.5	97	30	0.119

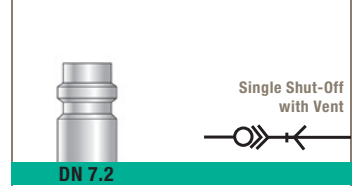
C 9000 Series: single shut-off = 2000 NI/min

## 9416E Coupler, Bulkhead Mountable, Female BSPP Thread


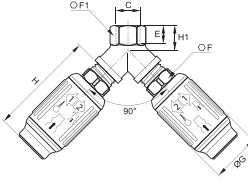

	Technical polymer, nickel-plated brass, NBR 		<b>C</b>		<b>E</b>	<b>F</b>	<b>G</b>	<b>K max</b>	<b>L1</b>	<b>L2</b>	<b>ØT min</b>	<b>kg</b>											
													7.2	G3/8	<a href="#">9416E07 17</a>	12	24	36.5	7	14.5	74	22.5	0.153

C 9000 Series: single shut-off = 2000 NI/min


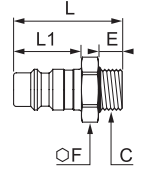

# European Profile




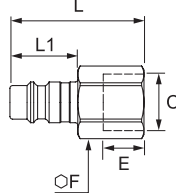

## 9440E Y Coupler, Female BSPP Thread

	Technical polymer, nickel-plated brass, NBR 	DN <b>C</b> 	<b>E</b> <b>F</b> <b>F1</b> <b>G</b> <b>H</b> <b>H1</b> <b>kg</b>
C 9000 Series: single shut-off = 2000 NI/min			


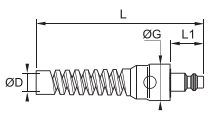

## 9087E Probe, Straight-Through, Male BSPP Thread

	Nickel-plated steel, technical polymer 	DN <b>C</b> 	<b>E</b> <b>F</b> <b>L</b> <b>L1</b> <b>kg</b>
Probe without shut-off			


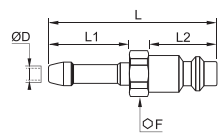

## 9086E Probe, Straight-Through, Female BSPP Thread

	Nickel-plated steel 	DN <b>C</b> 	<b>E</b> <b>F</b> <b>L</b> <b>L1</b> <b>kg</b>
Probe without shut-off			

## 9080E Probe, Straight-Through, LF 3000® Push-In Connection, with Spiral Protection Spring

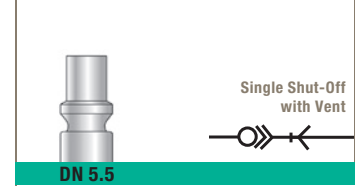
	Nickel-plated steel, NBR 	DN <b>ØD</b> 	<b>G</b> <b>L</b> <b>L1</b> <b>kg</b>
Probe without shut-off			

## 9094E Probe, Straight-Through, with Hosetail


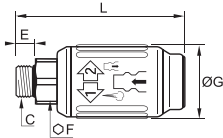


	Nickel-plated steel 	DN <b>ØD</b> 	<b>F</b> <b>L</b> <b>L1</b> <b>L2</b> <b>kg</b>
Probe without shut-off			




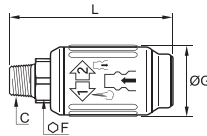


# ARO Profile




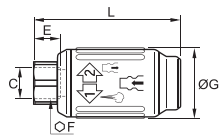


## 9401A Coupler, Male BSPP Thread

	Technical polymer, nickel-plated brass, NBR 	 <b>C</b> 	<b>E</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>		
		G1/4	<a href="#">9401A06 13</a>	6.5	17	31.5	70.5	0.105	
		5.5	G3/8	<a href="#">9401A06 17</a>	9	21	31.5	73.5	0.123
			G1/2	<a href="#">9401A06 21</a>	9	25	31.5	70.5	0.150
C 9000 series: single shut-off = 1250 NI/min									


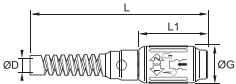


## 9405A Coupler, Male BSPT Thread

	Technical polymer, nickel-plated brass, NBR 	 <b>C</b> 	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>		
		R1/4	<a href="#">9405A06 13</a>	17	31.5	73	0.105	
		5.5	R3/8	<a href="#">9405A06 17</a>	19	31.5	74.5	0.110
			R1/2	<a href="#">9405A06 21</a>	22	31.5	79.5	0.140
C 9000 series: single shut-off = 1250 NI/min								


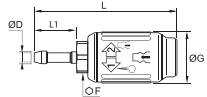


## 9414A Coupler, Female BSPP Thread

	Technical polymer, nickel-plated brass, NBR 	 <b>C</b> 	<b>E</b>	<b>F</b>	<b>G</b>	<b>L</b>	<b>kg</b>		
		G1/4	<a href="#">9414A06 13</a>	12	17	31.5	64.5	0.095	
		5.5	G3/8	<a href="#">9414A06 17</a>	12	22	31.5	70	0.115
			G1/2	<a href="#">9414A06 21</a>	15	27	31.5	76	0.145
C 9000 series: single shut-off = 1250 NI/min									

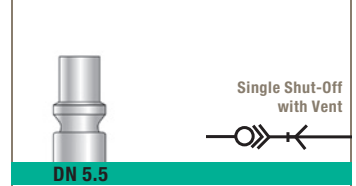
## 9410A Coupler, LF 3000® Push-In Connection, with Spiral Protection Spring

	Technical polymer, nickel-plated brass, NBR 	 <b>ØD</b> 	<b>G</b>	<b>L</b>	<b>L1</b>	<b>kg</b>	
		8	<a href="#">9410A06 08</a>	31.5	143	54	0.140
		5.5	10	<a href="#">9410A06 10</a>	31.5	143	54
C 9000 series: single shut-off = 1250 NI/min							


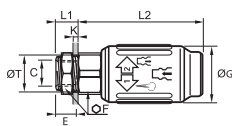

## 9421A Coupler with Hosetail

	Technical polymer, nickel-plated brass, NBR 	 <b>ØD</b> 	<b>F</b>	<b>G</b>	<b>L</b>	<b>L1</b>	<b>kg</b>		
		6	<a href="#">9421A06 06</a>	17	31.5	86.5	26	0.110	
		5.5	8	<a href="#">9421A06 08</a>	17	31.5	86.5	26	0.100
			10	<a href="#">9421A06 10</a>	17	31.5	86.5	26	0.100
C 9000 series: single shut-off = 1250 NI/min									


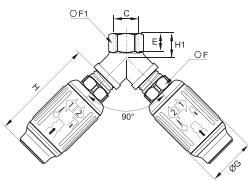

# ARO Profile




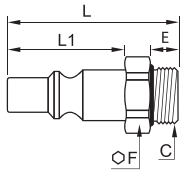

## 9416A Coupler, Bulkhead Mountable, Female BSPP Thread

	Technical polymer, nickel-plated brass, NBR 	DN <b>C</b>		<b>E</b> <b>F</b> <b>G</b> <b>K</b> <b>L1</b> <b>L2</b> <b>ØT</b> <b>kg</b>
C 9000 series: single shut-off = 1250 NI/min				


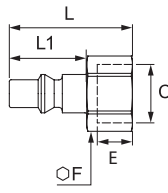

## 9440A Y Coupler, Female BSPP Thread

	Technical polymer, nickel-plated brass, NBR 	DN <b>C</b>		<b>E</b> <b>F</b> <b>F1</b> <b>G</b> <b>H</b> <b>H1</b> <b>kg</b>
C 9000 series: single shut-off = 1250 NI/min				


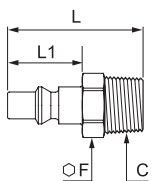

## 9087A Probe, Straight-Through, Male BSPP Thread

	Nickel-plated steel, technical polymer 	DN <b>C</b>		<b>E</b> <b>F</b> <b>L</b> <b>L1</b> <b>kg</b>		
					G1/4 <b>9087A06 13</b>	9 17 36 22 0.020
					5.5 G3/8 <b>9087A06 17</b>	9 19 36 22 0.024
					G1/2 <b>9087A06 21</b>	12 24 40 22 0.039
Probe without shut-off						

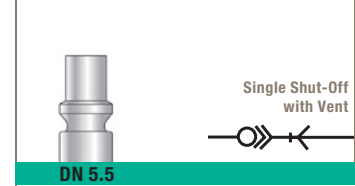
## 9086A Probe, Straight-Through, Female BSPP Thread

	Nickel-plated steel 	DN <b>C</b>		<b>E</b> <b>F</b> <b>L</b> <b>L1</b> <b>kg</b>		
					G1/4 <b>9086 22 13</b>	9 17 35.5 22 0.024
					5.5 G3/8 <b>9086 22 17</b>	10 19 35.5 22 0.023
					G1/2 <b>9086 22 21</b>	12 24 38 22 0.039
Probe without shut-off						


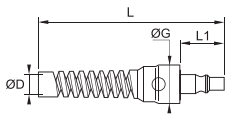

## 9084A Probe, Straight-Through, Male BSPT Thread

	Nickel-plated steel 	DN <b>C</b>		<b>F</b> <b>L</b> <b>L1</b> <b>kg</b>		
					R1/4 <b>9084 22 13</b>	14 40.5 22 0.020
					5.5 R3/8 <b>9084 22 17</b>	17 40.5 22 0.031
					R1/2 <b>9084 22 21</b>	22 46 22 0.048
Probe without shut-off						


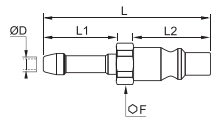

# ARO Profile



## 9080A Probe, Straight-Through, LF 3000® Push-In Connection, with Spiral Protection Spring

	Nickel-plated steel, NBR 	DN    ØD 	<b>G</b>	<b>L</b>	<b>L1</b>	<b>kg</b>
		5.5    8 <a href="#">9080A06 08</a>	24	118	22	0.028
		5.5    10 <a href="#">9080A06 10</a>	24	118	22	0.027
Probe without shut-off						

## 9094A Probe, Straight-Through, with Hosetail

	Nickel-plated steel 	DN    ØD 	<b>F</b>	<b>L</b>	<b>L1</b>	<b>L2</b>	<b>kg</b>
		5.5    6 <a href="#">9094A06 06</a>	14	48.5	22	25	0.012
		5.5    8 <a href="#">9094A06 08</a>	14	48.5	22	25	0.014
		5.5    10 <a href="#">9094A06 10</a>	14	48.5	22	25	0.016
Probe without shut-off							