

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

Safety & Reliability

- Prevents risk of whiplash
- Quick-acting vent allowing disconnection to be carried out in total safety
- Rotating sleeve to avoid risk of accidental disconnection
- Low connection/disconnection force even under pressure
- Polymer sleeve protects equipment from scratching
- Protective spiral over the tube prevents kinking

Performance

- Very high flow and low pressure drop
- 100% leak-tested in production
- Date coding to guarantee quality and traceability
- Robust impact-resistant material
- Optimum energy efficiency
- Long-term reliability

Easy-to-Use

- Immediate identification by clear marking on each model showing:
 - profile of the compatible male probe
 - type part number
- Compatible with male probes conforming to:
 - ISO B profile
 - European profile
 - ARO profile



Applications

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

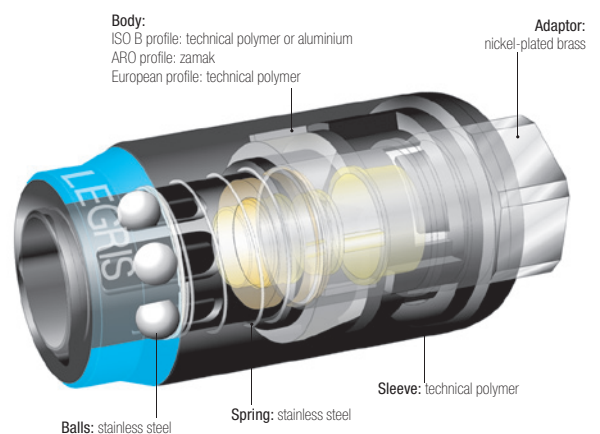
Technical Characteristics

Compatible Fluids	Compressed air
Working Pressure	0 to 16 bar
Working Temperature	-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

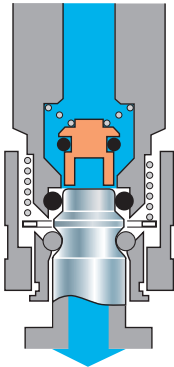


Silicone-free

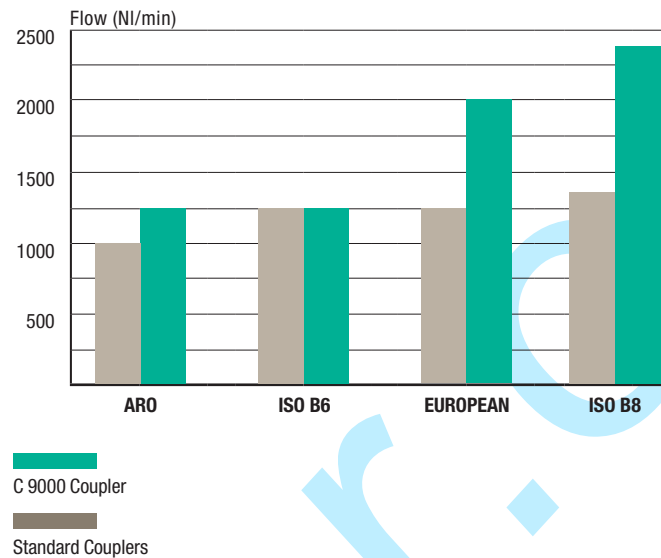
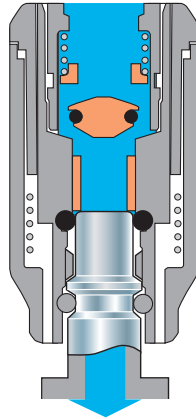
C 9000 Polymer Quick-Acting Safety Couplers

C 9000 Technology and Flow Rates

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



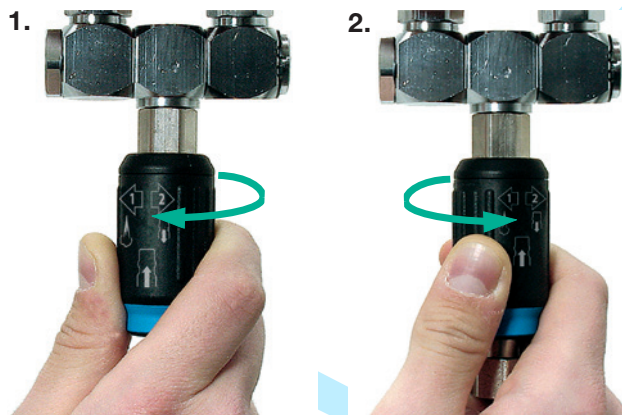
C 9000 quick-acting coupler
"Optimal flow" technology
Flow: 2400 NI/min



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

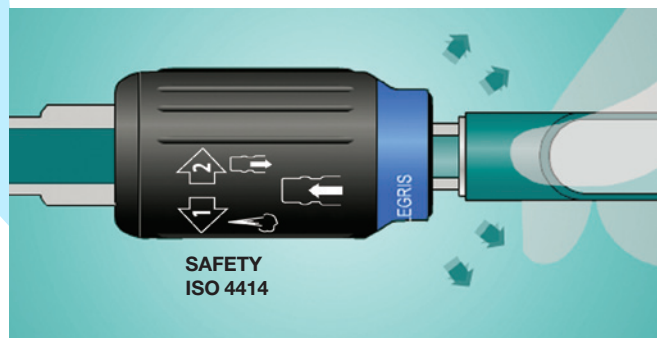
Operation

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

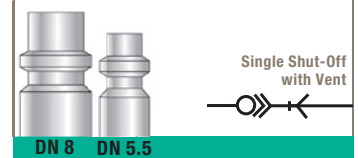


ISO B6 profile, recoil tubing (I.D. 6 mm, length 6 m)
Venting time = 350 ms (transition from 6 bar to 0.2 bar)

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



9401U Coupler, Male BSPP Thread

Technical polymer, nickel-plated
brass, NBR

C

E

F

G

L

kg

5.5

G1/4

9401U06 13

7.5

17

31.5

74

0.075

G3/8

9401U06 17

8.5

21

31.5

76.5

0.095

8

G1/2

9401U06 21

10.5

25

31.5

80

0.115

G1/4

9401U08 13

6.5

22

36.5

81.5

0.120

G3/8

9401U08 17

7.5

22

36.5

82.5

0.133

G1/2

9401U08 21

9

25

36.5

85.5

0.140

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

9405U Coupler, Male BSPT Thread

Technical polymer, nickel-plated
brass, NBR

C





F G L kg

5.5	R1/4	9405U06 13	17	31.5	75	0.075
	R3/8	9405U06 17	19	31.5	76.5	0.095
8	R1/2	9405U06 21	22	31.5	81.5	0.110
	R1/4	9405U08 13	22	36.5	84	0.120
	R3/8	9405U08 17	22	36.5	84	0.120
	R1/2	9405U08 21	22	36.5	88	0.140


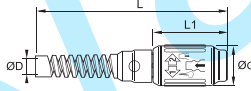


C 9000 Series ISO B (DN 5.5): single shut-off = 1250 NI/min

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

9414U Coupler, Female BSPP Thread

			C		E	F	G	L	kg
			G1/4						
		5.5	G3/8	9414U06 17	12	17	31.5	66.5	0.070
			G1/2	9414U06 21	12	22	31.5	72	0.085
		8	G1/4	9414U08 13	15	27	31.5	78	0.115
			G3/8	9414U08 17	12	22	36.5	75	0.127
G1/2	9414U08 21		12	22	36.5	75	0.144		
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									

9410U Coupler, LF 3000® Push-In Connection, Body Spiral Protection Spring

	<p>Technical polymer, nickel-plated brass, NBR</p> 		ØD		G	L	L1	kg
		5.5	8	9410U06 08	31.5	145	56	0.096
			10	9410U06 10	31.5	145	56	0.080
		8	10	9410U08 10	36.5	155	63	0.175
			12	9410U08 12	36.5	165	63	0.162

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

9421U Coupler with Hosetail

Technical polymer, nickel-plated
brass, NBR

ØD

F

G

L

L1

kg

6

9421U06 06

17

31.5

88.5

26

0.070

5.5

8

9421U06 08

17

31.5

88.5

26

0.070

10

9421U06 10

17

31.5

88.5

26

0.070

8

6

9421U08 06

22

36.5

95

26

0.110

8

8

9421U08 08

22

36.5

95

26

0.100

10

9421U08 10

22

36.5

95

26

0.124

13

9421U08 13

22

36.5

99

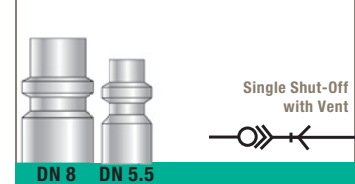
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0.125


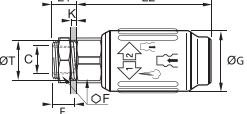

C 9000 Series ISO B (DN 5.5): single shut-off flow = 1250 NI/min

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


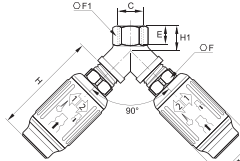

ISO B Profile




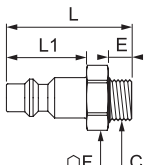


9416U Coupler, Bulkhead Mountable, Female BSPP Thread

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


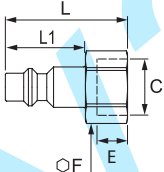


9440U Y Coupler, Female BSPP Thread

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


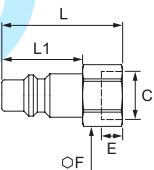


9087U Probe, Straight-Through, Male BSPP Thread

	<p>Nickel-plated steel, technical polymer</p> 		C		E	F	L	L1	kg
					5.5	G1/4	9087U06 13	9	17
		G3/8	9087U06 17	9	19	38	24	0.032	
		G1/2	9087U06 21	12	22	42	24	0.048	
		8	G1/4	9087U08 13	9	17	38	24	0.030
		G3/8	9087U08 17	9	19	39	24	0.036	
		G1/2	9087U08 21	12	22	42	24	0.058	
		Probe without shut-off							

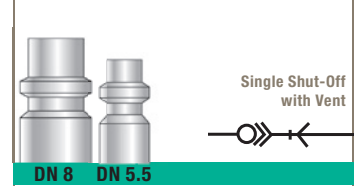
9086U Probe, Straight-Through, Female BSPP Thread

	<p>Nickel-plated steel</p> 		C		E	F	L	L1	kg
		5.5	G1/4	9086 23 13	9	17	36	24	0.025
			G3/8	9086 23 17	9	19	36	24	0.025
			G1/2	9086 23 21	12	24	39	24	0.039
Probe without shut-off									


9086U Probe, Straight-Through, Female BSPP Thread

	Nickel-plated steel			C		E	F	L	L1	kg
			8.5	G1/4	9086 30 13	10	17	40	28	0.032
				G3/8	9086 30 17	10	19	42	28	0.035
				G1/2	9086 30 21	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)										

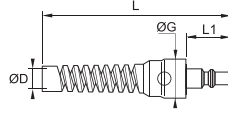
ISO B Profile





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




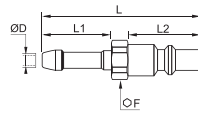



Nickel-plated steel, NBR



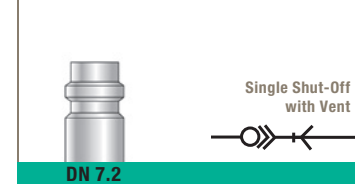
	DN	ØD		G	L	L1	kg
5.5		8	9080U06 08	24	112	24	0.052
		10	9080U06 10	24	112	24	0.044
8		10	9080U08 10	24	114	26	0.095
		12	9080U08 12	29.5	125	26	0.096
Probe without shut-off							



9094U Probe, Straight-Through, with Hosetail

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

European Profile



9401E Coupler, Male BSPP Thread

	Technical polymer, nickel-plated brass, NBR 	$\overline{\text{DN}}$	C			E	F	G	L	kg
			G1/4	9401E07 13		6.5	22	36.5	80	0.124
		7.2	G3/8	9401E07 17		7.5	22	36.5	81	0.122
			G1/2	9401E07 21		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 	$\overline{\text{DN}}$	C			E	F	G	L	kg
			G1/4	9414E07 13		12	22	36.5	73	0.118
		7.2	G3/8	9414E07 17		12	22	36.5	73	0.109
			G1/2	9414E07 21		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 	$\overline{\text{DN}}$	ØD			G	L	L1	kg
			10	9410E07 10		36.5	151	63	0.175
		7.2	12	9410E07 12		36.5	151	63	0.180

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

9421E Coupler with Hosetail

	Technical polymer, nickel-plated brass, NBR 	$\overline{\text{DN}}$	ØD			F	G	L	L1	kg
			8	9421E07 08		22	36.5	93	26	0.113
		7.2	10	9421E07 10		22	36.5	93	26	0.114
			13	9421E07 13		22	36.5	97	30	0.119

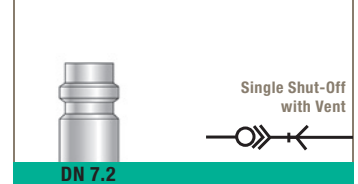
C 9000 Series: single shut-off = 2000 NI/min

9416E Coupler, Bulkhead Mountable, Female BSPP Thread

	Technical polymer, nickel-plated brass, NBR 	$\overline{\text{DN}}$	C			E	F	G	K max	L1	L2	ØT min	kg
		7.2	G3/8	9416E07 17		12	24	36.5	7	14.5	74	22.5	0.153

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


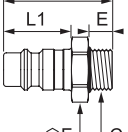


European Profile




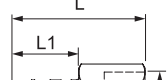


9440E Y Coupler, Female BSPP Thread

	Technical polymer, nickel-plated brass, NBR			C		E	F	F1	G	H	H1	kg
			7.2	G1/2	9440E07 21	14	25	25	36.5	78	19	0.335
			C 9000 Series: single shut-off = 2000 NI/min									


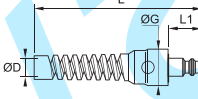


9087E Probe, Straight-Through, Male BSPP Thread

	<p>Nickel-plated steel, technical polymer</p> 	<p> C </p>	<p>E</p>	<p>F</p>	<p>L</p>	<p>L1</p>	<p>kg</p>			
			7.2	G1/4	9087E07 13	9	14	34	20	0.018
				G3/8	9087E07 17	9	17	34	20	0.025
				G1/2	9087E07 21	12	22	38	20	0.048
			Probe without shut-off							


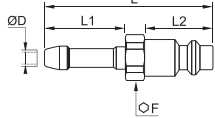


9086E Probe, Straight-Through, Female BSPP Thread

	<p>Nickel-plated steel</p> 	7.4		C		E	F	L	L1	kg
			G1/8	9086 25 10	7	14	32	20	0.015	
			G1/4	9086 25 13	9	17	38.5	20	0.027	
			G3/8	9086 25 17	9	19	33	20	0.027	
			G1/2	9086 25 21	12	24	36	20	0.050	
Probe without shut-off										

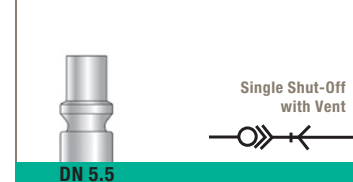
9080E Probe, Straight-Through, LF 3000® Push-In Connection, with Spiral Protection Spring

	<p>Nickel-plated steel, NBR</p> 		ØD		G	L	L1	kg
		7.2	10	9080E07 10	24	114	20	0.102
			12	9080E07 12	29.5	125	20	0.088
Probe without shut-off								


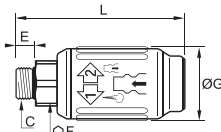


9094E Probe, Straight-Through, with Hosetail

	<p>Nickel-plated steel</p> 		ØD		F	L	L1	L2	kg
		7.2	8	9094E07 08	17	48	20	25	0.014
			10	9094E07 10	17	48	20	25	0.016
			13	9094E07 13	17	48	20	25	0.019
Probe without shut-off									


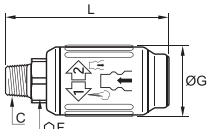


ARO Profile




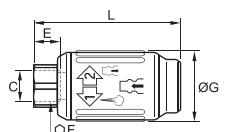


9401A Coupler, Male BSPP Thread

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


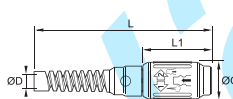


9405A Coupler, Male BSPT Thread

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


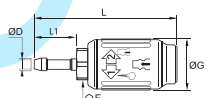


9414A Coupler, Female BSPP Thread

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

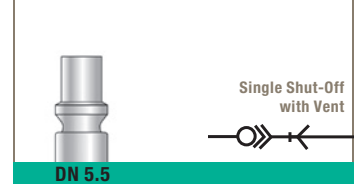
9410A Coupler, LF 3000® Push-In Connection, with Spiral Protection Spring

	<p>Technical polymer, nickel-plated brass, NBR</p> 	 ØD 	G	L	L1	kg
		5.5 8 9410A06 08	31.5	143	54	0.140
		10 9410A06 10	31.5	143	54	0.175
		C 9000 series: single shut-off = 1250 NI/min				


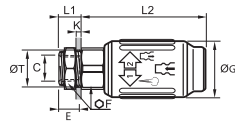


9421A Coupler with Hosetail

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


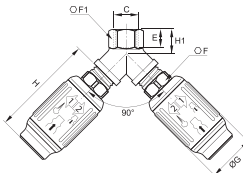


ARO Profile




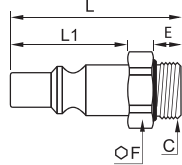


9416A Coupler, Bulkhead Mountable, Female BSPP Thread

	Technical polymer, nickel-plated brass, NBR 	 C 								E	F	G	K	L1	L2	ØT	kg
			5.5	G1/4	9416A06 13	12	22	31.5	6	12.5	66.5	18.5	0.135				
			C 9000 series: single shut-off = 1250 Nl/min														


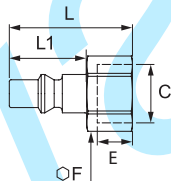


9440A Y Coupler, Female BSPP Thread

	Technical polymer, nickel-plated brass, NBR 		C									E	F	F1	G	H	H1	kg
		5.5	G3/8	9440A06 17	11.5	19	20	31.5	68	16	0.263							
		C 9000 series: single shut-off = 1250 NI/min																


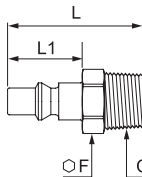


9087A Probe, Straight-Through, Male BSPP Thread

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

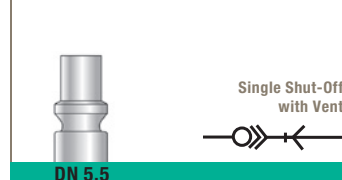
9086A Probe, Straight-Through, Female BSPP Thread

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


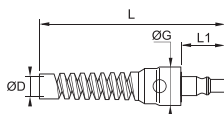


9084A Probe, Straight-Through, Male BSPT Thread

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


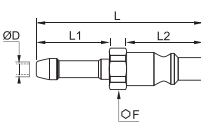


ARO Profile



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

	<p>Nickel-plated steel, NBR</p> 		ØD		G	L	L1	kg
		5.5	8	9080A06 08	24	118	22	0.028
			10	9080A06 10	24	118	22	0.027
		Probe without shut-off						

9094A Probe, Straight-Through, with Hosetail

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