

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

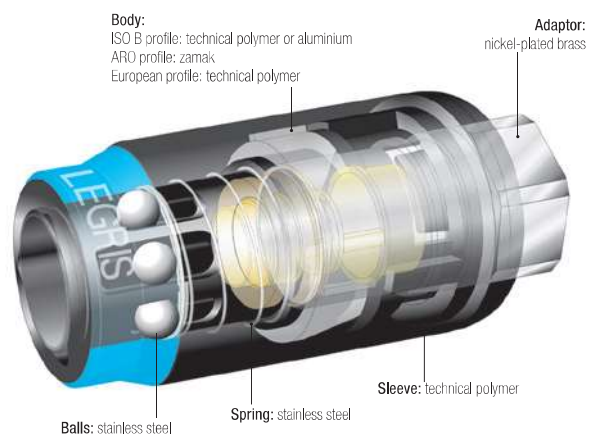
Technical Characteristics

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

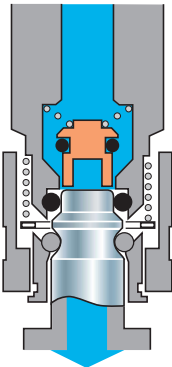


Silicone-free

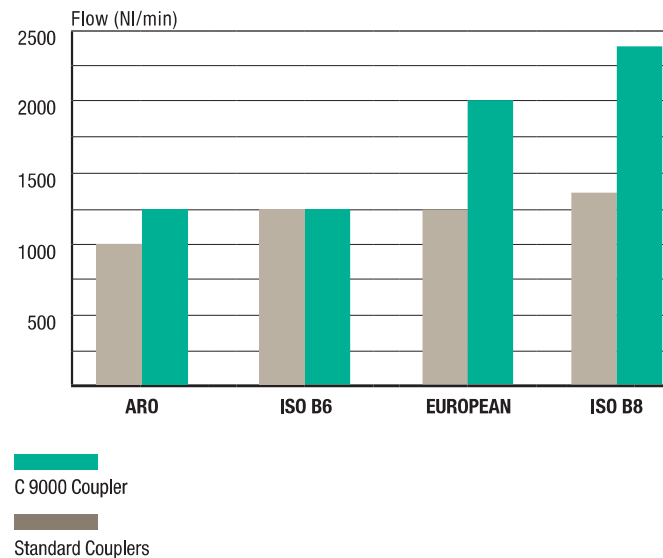
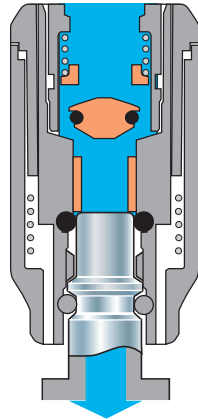
C 9000 Polymer Quick-Acting Safety Couplers

C 9000 Technology and Flow Rates

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



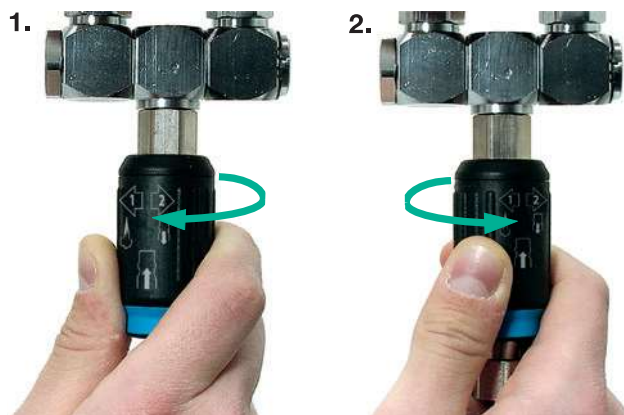
C 9000 quick-acting coupler
"Optimal flow" technology
Flow: 2400 NI/min



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)

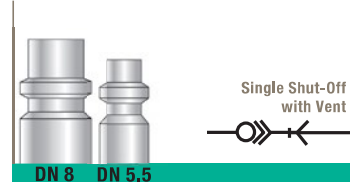
Venting time = 350 ms (transition from 6 bar to 0.2 bar)

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

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

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 Nl/min

C 9000 Series ISO B (DN 8): single shut-off = 2400 Nl/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
	R1/2	9405U06 21	22	31,5	81,5	0,110
8	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 Nl/min

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

9414U Coupler, Female BSPP Thread

Technical polymer, nickel-plated
brass, NBR

C

E

F

G

L

kg

G1/4

[9414U06 13](#)

12

17

31,5

66,5

0,070

5.5 G3/8

[9414U06 17](#)

12

22

31,5

72

0,085

G1/2

[9414U06 21](#)

15

27

31,5

78

0,115

8 G1/4

[9414U08 13](#)

12

22

36,5

75

0,127

G3/8

[9414U08 17](#)

12

22

36,5

75

0,144

G1/2

[9414U08 21](#)

15

27

36,5

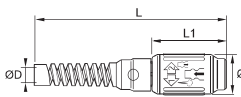
80

0,138

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

	Technical polymer, nickel-plated brass, NBR 		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 Nl/min

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

9421U Coupler with Hosetail

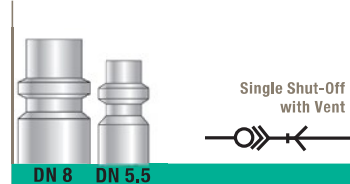
Technical polymer, nickel-plated
brass, NBR

	ØD		F	G	L	L1	kg
5.5	6	9421U06 06	17	31.5	88.5	26	0.070
	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	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	30	0.125

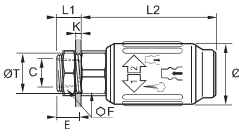
C 9000 Series ISO B (DN 5.5): single shut-off flow = 1250 Nl/min

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

ISO B Profile

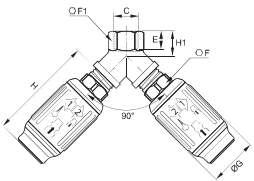


9416U Coupler, Bulkhead Mountable, Female BSPP Thread

	Technical polymer, nickel-plated brass, NBR 	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

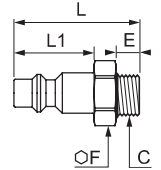
C 9000 Series ISO B (DN 5.5): single shut-off = 1250 Nl/min
 C 9000 Series ISO B (DN 8): single shut-off = 2400 Nl/min

9440U Y Coupler, Female BSPP Thread

	Technical polymer, nickel-plated brass, NBR 	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

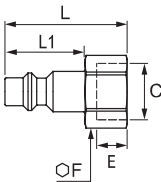
C 9000 Series ISO B (DN 5.5): single shut-off = 1250 Nl/min
 C 9000 Series ISO B (DN 8): single shut-off = 2400 Nl/min

9087U Probe, Straight-Through, Male BSPP Thread

	Nickel-plated steel, technical polymer 	DN	C		E	F	L	L1	kg
		5.5	G1/4	9087U06 13	9	17	38	24	0,025
			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

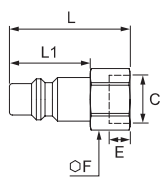
Probe without shut-off

9086U Probe, Straight-Through, Female BSPP Thread

	Nickel-plated steel 	DN	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

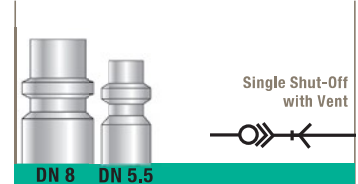
Probe without shut-off

9086U Probe, Straight-Through, Female BSPP Thread

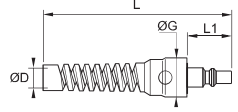
	Nickel-plated steel 	DN	C		E	F	L	L1	kg
		8,5	G1/4	9086 30 13	10	17	40	28	0,032
			G3/8	9086 30 17	10	19	42	28	0,035
			G1/2	9086 30 21	12	24	43	28	0,046

Probe without shut-off
 30 Series probe (DN 8,5) compatible with ISO B series C 9000 couplers (DN 8)

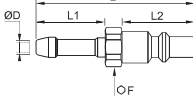
ISO B Profile



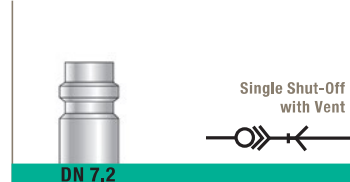
9080U Probe, Straight-Through, LF 3000® Push-In Connection, with Spiral Protection Spring

	Nickel-plated steel, NBR			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

	Nickel-plated steel 		ØD		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

Single Shut-Off
with Vent

DN 7.2

	Technical polymer, nickel-plated brass, NBR	DN C	E	F	F1	G	H	H1	kg
		7,2 G1/2 9440E07 21 C 9000 Series: single shut-off = 2000 NI/min	14	25	25	36,5	78	19	0,335

	Nickel-plated steel, technical polymer		C		E	F	L	L1	kg
			7.2		9	14	34	20	0.018
					9	17	34	20	0.025
					12	22	38	20	0.048

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

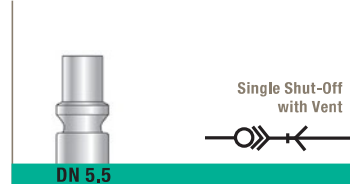
	Nickel-plated steel, NBR		G	L	L1	kg
		7.2 10 9080E07 10 12 9080E07 12	24	114	20	0.102
		Probe without shut-off	29.5	125	20	0.088

	Nickel-plated steel								
			ØD		F	L	L1	L2	kg
			8	9094E07 08	17	48	20	25	0,014

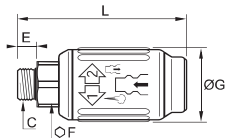
7.2			10	9094E07 10	17	48	20	25	0,016
			13	9094E07 13	17	48	20	25	0,019

Probe without shut-off

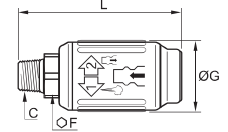
ARO Profile



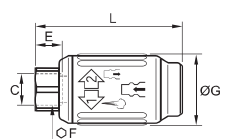
9401A Coupler, Male BSPP Thread

	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 Nl/min									

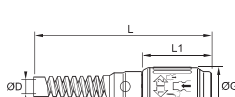
9405A Coupler, Male BSPT Thread

	Technical polymer, nickel-plated brass, NBR 		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 Nl/min								

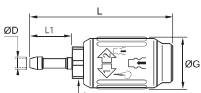
9414A Coupler, Female BSPP Thread

	Technical polymer, nickel-plated brass, NBR 		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							

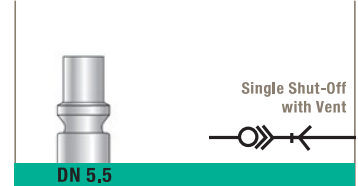
9410A Coupler, LF 3000® Push-In Connection, with Spiral Protection Spring

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

9087A Probe, Straight-Through, Male BSPP Thread

	Nickel-plated steel, technical polymer			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			E	F	L	L1	kg
5.5	G1/4	9086 22 13		9	17	35,5	22	0,024
	G3/8	9086 22 17		10	19	35,5	22	0,023
	G1/2	9086 22 21		12	24	38	22	0,039

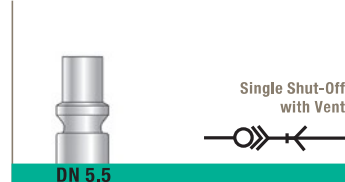
Probe without shut-off

9084A Probe, Straight-Through, Male BSPT Thread

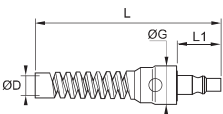
	Nickel-plated steel			F	L	L1	kg
5.5	R1/4	9084 22 13		14	40,5	22	0,020
	R3/8	9084 22 17		17	40,5	22	0,031
	R1/2	9084 22 21		22	46	22	0,048

Probe without shut-off

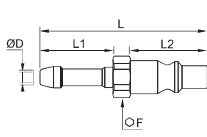
ARO Profile



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

	Nickel-plated steel, NBR 	DN	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

	Nickel-plated steel 	DN	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								