

# 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.

## 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

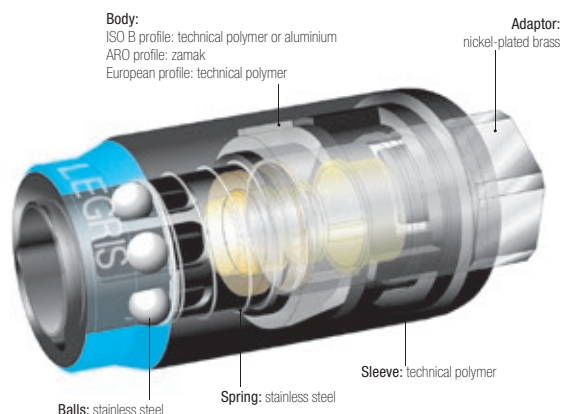
## Technical Characteristics

<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

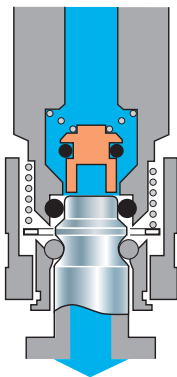


**Silicone-free**

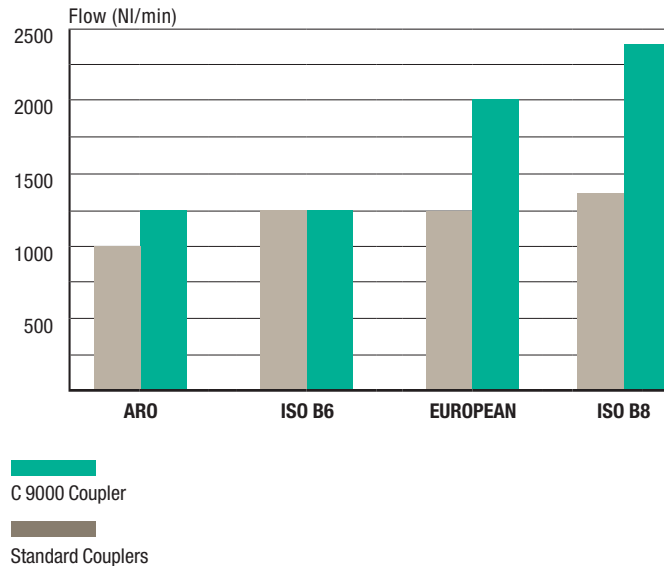
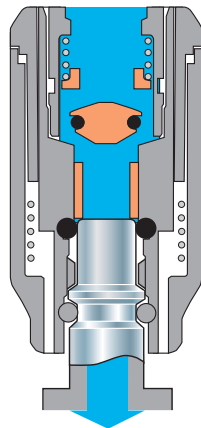
# C 9000 Polymer Quick-Acting Safety Couplers

## C 9000 Technology and Flow Rates

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



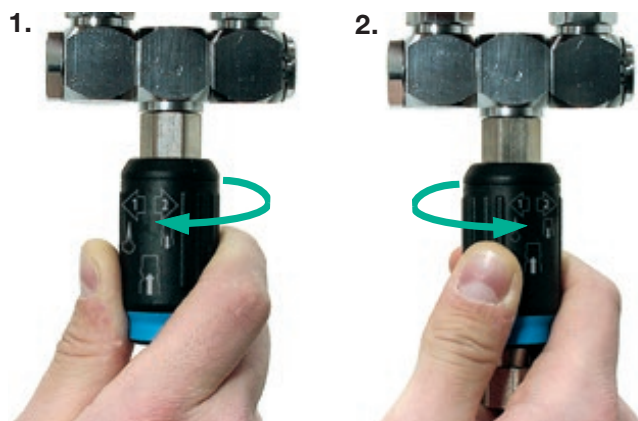
C 9000 quick-acting coupler  
"Optimal flow" technology  
Flow: 2400 NI/min



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 Time



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

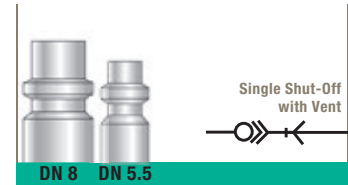
Venting time = 350 ms (transition from 6 bar to 0.2 bar)

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

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

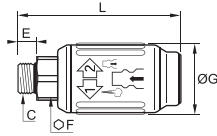
Even with longer lengths of tubing, the vent time of the C 9000 coupler can be less than 1 second.

# ISO B Profile



## 9401U Coupler, Male BSPP Thread

Technical polymer, nickel-plated brass, NBR



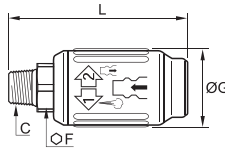
DN	C		E	F	G	L	Kg
5.5	G1/4	9401U06 13	7.5	17	31.5	74	0.075
	G3/8	9401U06 17	8.5	21	31.5	76.5	0.095
	G1/2	9401U06 21	10.5	25	31.5	80	0.115
8	G1/4	9401U08 13	6.5	22	36.5	81.5	0.120
	G3/8	9401U08 17	7.5	22	36.5	82.5	0.133
	G1/2	9401U08 21	9	25	36.5	85.5	0.140

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



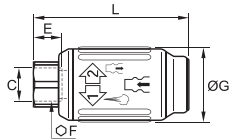
DN	C		F	G	L	Kg
5.5	R1/4	9405U06 13	17	31.5	75	0.075
	R3/8	9405U06 17	19	31.5	76.5	0.095
	R1/2	9405U06 21	22	31.5	81.5	0.110
8	R1/4	9405U08 13	22	36.5	84	0.120
	R3/8	9405U08 17	22	36.5	84	0.120
	R1/2	9405U08 21	22	36.5	88	0.140

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

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

## 9414U Coupler, Female BSPP Thread

Technical polymer, nickel-plated brass, NBR



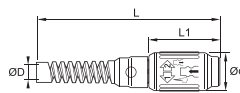
DN	C		E	F	G	L	Kg
5.5	G1/4	9414U06 13	12	17	31.5	66.5	0.070
	G3/8	9414U06 17	12	22	31.5	72	0.085
	G1/2	9414U06 21	15	27	31.5	78	0.115
8	G1/4	9414U08 13	12	22	36.5	75	0.127
	G3/8	9414U08 17	12	22	36.5	75	0.144
	G1/2	9414U08 21	15	27	36.5	80	0.138

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



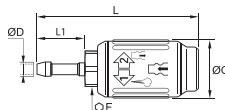
DN	ØD		G	L	L1	Kg
5.5	8	9410U06 08	31.5	145	56	0.096
	10	9410U06 10	31.5	145	56	0.080
8	10	9410U08 10	36.5	155	63	0.175
	12	9410U08 12	36.5	165	63	0.162

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

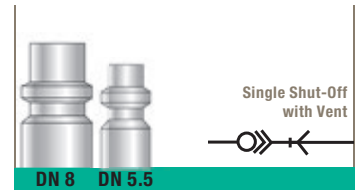


DN	ØD		F	G	L	L1	Kg
5.5	6	9421U06 06	17	31.5	88.5	26	0.070
	8	9421U06 08	17	31.5	88.5	26	0.070
	10	9421U06 10	17	31.5	88.5	26	0.070
8	6	9421U08 06	22	36.5	95	26	0.110
	8	9421U08 08	22	36.5	95	26	0.100
	10	9421U08 10	22	36.5	95	26	0.124
	13	9421U08 13	22	36.5	99	30	0.125

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

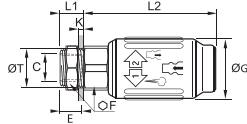
C 9000 Series ISO B (DN 8): single shut-off = 2400 NI/min

# ISO B Profile



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

Technical polymer, nickel-plated brass, NBR



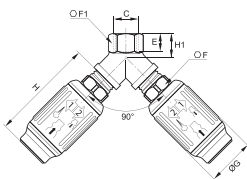
DN	C		E	F	G	K <sub>max</sub>	L1	L2	ØT <sub>min</sub>	Kg
5.5	G1/4	<a href="#">9416U06 13</a>	12	22	31.5	6	12.5	68.5	18.5	0.105
8	G3/8	<a href="#">9416U08 17</a>	12	24	36.5	7	14.5	76	22.5	0.150

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



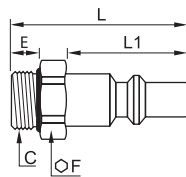
DN	C		E	F	F1	G	H	H1	Kg
5.5	G3/8	<a href="#">9440U06 17</a>	11.5	19	20	31.5	70	16	0.207
8	G1/2	<a href="#">9440U08 21</a>	14	22	25	36.5	80	19	0.352

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

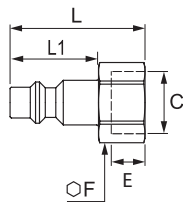


DN	C		E	F	L	L1	Kg
5.5	G1/4	<a href="#">9087U06 13</a>	9	13	39	24	0.026
	G3/8	<a href="#">9087U06 17</a>	9	17	38	24	0.032
	G1/2	<a href="#">9087U06 21</a>	9	19	39	24	0.048
8	G1/4	<a href="#">9087U08 13</a>	9	17	38	24	0.030
	G3/8	<a href="#">9087U08 17</a>	9	19	39	24	0.036
	G1/2	<a href="#">9087U08 21</a>	12	22	42	24	0.058

Probe without shut-off

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

Treated steel

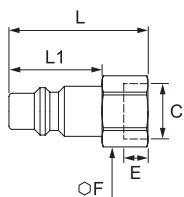


DN	C		E	F	L	L1	Kg
5.5	G1/4	<a href="#">9086 23 13</a>	9	17	36	24	0.025
	G3/8	<a href="#">9086 23 17</a>	9	19	36	24	0.025
	G1/2	<a href="#">9086 23 21</a>	12	24	39	24	0.039

Probe without shut-off

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

Nickel-plated steel



DN	C		E	F	L	L1	Kg
8.5	G1/4	<a href="#">9086 30 13</a>	10	17	40	28	0.032
	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

C 9000 Series probe (DN 8.5) compatible with ISO B Series C 9000 couplers (DN 8)

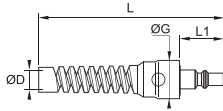
# ISO B Profile



DN 8 DN 5.5

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

Nickel-plated steel, NBR

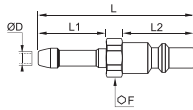


DN	ØD		G	L	L1	Kg
5.5	8	<a href="#">9080U06 08</a>	24	112	24	0.052
	10	<a href="#">9080U06 10</a>	24	112	24	0.044
8	10	<a href="#">9080U08 10</a>	24	114	26	0.095
	12	<a href="#">9080U08 12</a>	29.5	125	26	0.096

Probe without shut-off

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

Nickel-plated steel



DN	ØD		F	L	L1	L2	Kg
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

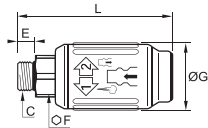
Probe without shut-off

# European Profile



## 9401E Coupler, Male BSPP Thread

Technical polymer, nickel-plated brass, NBR

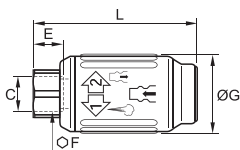


DN	C		E	F	G	L	Kg
7.2	G1/4	<a href="#">9401E07 13</a>	6.5	22	36.5	80	0.124
	G3/8	<a href="#">9401E07 17</a>	7.5	22	36.5	81	0.122
	G1/2	<a href="#">9401E07 21</a>	9	25	36.5	83.5	0.136

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

## 9414E Coupler, Female BSPP Thread

Technical polymer, nickel-plated brass, NBR

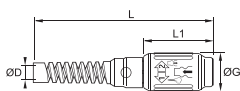


DN	C		E	F	G	L	Kg
7.2	G1/4	<a href="#">9414E07 13</a>	12	22	36.5	73	0.118
	G3/8	<a href="#">9414E07 17</a>	12	22	36.5	73	0.109
	G1/2	<a href="#">9414E07 21</a>	15	27	36.5	78	0.130

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

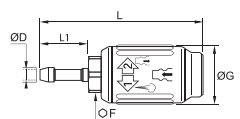


DN	ØD		G	L	L1	Kg
7.2	10	<a href="#">9410E07 10</a>	36.5	151	63	0.175
	12	<a href="#">9410E07 12</a>	36.5	151	63	0.180

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

## 9421E Coupler with Hosetail

Technical polymer, nickel-plated brass, NBR

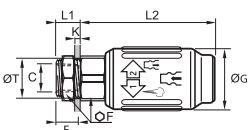


DN	ØD		F	G	L	L1	Kg
7.2	8	<a href="#">9421E07 08</a>	22	36.5	93	26	0.113
	10	<a href="#">9421E07 10</a>	22	36.5	93	26	0.114
	13	<a href="#">9421E07 13</a>	22	36.5	97	30	0.119

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

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

Technical polymer, nickel-plated brass, NBR



DN	C		E	F	G	K <sub>max</sub>	L1	L2	ØT <sub>min</sub>	Kg
7.2	G3/8	<a href="#">9416E07 17</a>	12	24	36.5	7	14.5	74	22.5	0.153

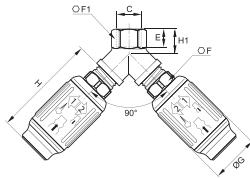
C 9000 Series: single shut-off = 2000 NI/min

# European Profile



## 9440E Y Coupler, Female BSPP Thread

Technical polymer, nickel-plated brass, NBR

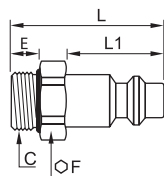


DN	C		E	F	F1	G	H	H1	Kg
7.2	G1/2	<a href="#">9440E07 21</a>	14	25	25	36.5	78	19	0.335

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

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

Nickel-plated steel, technical polymer

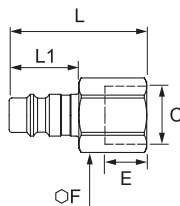


DN	C		E	F	L	L1	Kg
7.2	G1/4	<a href="#">9087E07 13</a>	9	14	34	20	0.018
	G3/8	<a href="#">9087E07 17</a>	9	17	34	20	0.025
	G1/2	<a href="#">9087E07 21</a>	12	22	38	20	0.048

Probe without shut-off

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

Nickel-plated steel

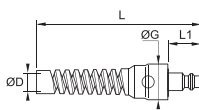


DN	C		E	F	L	L1	Kg
7.4	G1/8	<a href="#">9086 25 10</a>	7	14	32	20	0.016
	G1/4	<a href="#">9086 25 13</a>	9	17	38.5	20	0.027
	G3/8	<a href="#">9086 25 17</a>	9	19	33	20	0.027
	G1/2	<a href="#">9086 25 21</a>	12	24	36	20	0.048

Probe without shut-off

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

Nickel-plated steel, NBR

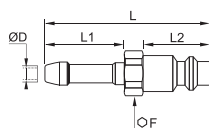


DN	ØD		G	L	L1	Kg
7.2	10	<a href="#">9080E07 10</a>	24	114	20	0.102
	12	<a href="#">9080E07 12</a>	29.5	125	20	0.088

Probe without shut-off

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

Nickel-plated steel



DN	ØD		F	L	L1	L2	Kg
7.2	8	<a href="#">9094E07 08</a>	17	48	20	25	0.015
	10	<a href="#">9094E07 10</a>	17	48	20	25	0.016
	13	<a href="#">9094E07 13</a>	17	48	20	25	0.020

Probe without shut-off