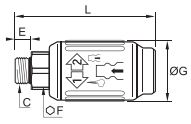
# European Profile




## 9401E Coupler, Male BSPP Thread



Technical polymer, nickel-plated brass, NBR



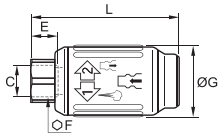

| DN | C | | E | F | G | L | kg |
|---|---|---|---|---|---|---|---|
| 7.2 | G1/4 | 9401E07 13 | 6.5 | 22 | 36.5 | 80 | 0.124 |
| | G3/8 | 9401E07 17 | 7.5 | 22 | 36.5 | 81 | 0.122 |
| | G1/2 | 9401E07 21 | 9 | 25 | 36.5 | 83.5 | 0.136 |

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

## 9414E Coupler, Female BSPP Thread



Technical polymer, nickel-plated brass, NBR



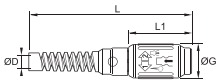

| DN | C | | E | F | G | L | kg |
|---|---|---|---|---|---|---|---|
| 7.2 | G1/4 | 9414E07 13 | 12 | 22 | 36.5 | 73 | 0.118 |
| | G3/8 | 9414E07 17 | 12 | 22 | 36.5 | 73 | 0.109 |
| | G1/2 | 9414E07 21 | 15 | 27 | 36.5 | 78 | 0.130 |

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

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



Technical polymer, nickel-plated brass, NBR



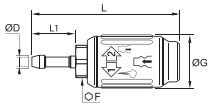

| DN | ØD | | G | L | L1 | kg |
|---|---|---|---|---|---|---|
| 7.2 | 10 | 9410E07 10 | 36.5 | 151 | 63 | 0.175 |
| | 12 | 9410E07 12 | 36.5 | 151 | 63 | 0.180 |

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

## 9421E Coupler with Hosetail



Technical polymer, nickel-plated brass, NBR



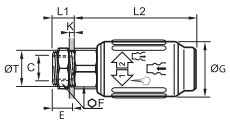

| DN | ØD | | F | G | L | L1 | kg |
|---|---|---|---|---|---|---|---|
| 7.2 | 8 | 9421E07 08 | 22 | 36.5 | 93 | 26 | 0.113 |
| | 10 | 9421E07 10 | 22 | 36.5 | 93 | 26 | 0.114 |
| | 13 | 9421E07 13 | 22 | 36.5 | 97 | 30 | 0.119 |

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

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



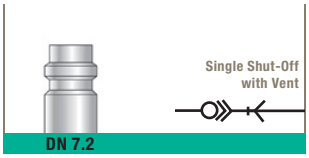
Technical polymer, nickel-plated brass, NBR




| 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 Nl/min

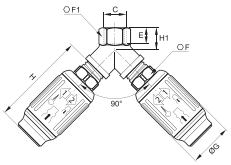
# European Profile




## 9440E Y Coupler, Female BSPP Thread



Technical polymer, nickel-plated brass, NBR



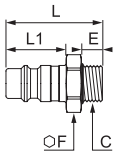
| DN | C | | E | F | F1 | G | H | H1 | kg |
|---|---|---|---|---|---|---|---|---|---|
| 7.2 | G1/2 | 9440E07 21 | 14 | 25 | 25 | 36.5 | 78 | 19 | 0.335 |

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

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



Nickel-plated steel,technical polymer



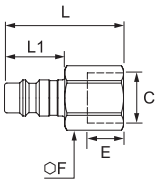

| DN | C | | E | F | L | L1 | kg |
|---|---|---|---|---|---|---|---|
| 7.2 | G1/4 | 9087E07 13 | 9 | 14 | 34 | 20 | 0.018 |
| | G3/8 | 9087E07 17 | 9 | 17 | 34 | 20 | 0.025 |
| | G1/2 | 9087E07 21 | 12 | 22 | 38 | 20 | 0.048 |

Probe without shut-off

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



Nickel-plated steel



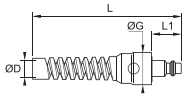

| DN | C | | E | F | L | L1 | kg |
|---|---|---|---|---|---|---|---|
| 7.4 | G1/8 | 9086 25 10 | 7 | 14 | 32 | 20 | 0.015 |
| | G1/4 | 9086 25 13 | 9 | 17 | 38.5 | 20 | 0.027 |
| | G3/8 | 9086 25 17 | 9 | 19 | 33 | 20 | 0.027 |
| | G1/2 | 9086 25 21 | 12 | 24 | 36 | 20 | 0.050 |

Probe without shut-off

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



Nickel-plated steel, NBR



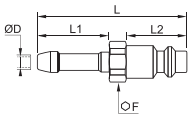

| DN | ØD | | G | L | L1 | kg |
|---|---|---|---|---|---|---|
| 7.2 | 10 | 9080E07 10 | 24 | 114 | 20 | 0.102 |
| | 12 | 9080E07 12 | 29.5 | 125 | 20 | 0.088 |

Probe without shut-off

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



Nickel-plated steel




| DN | 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

# 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

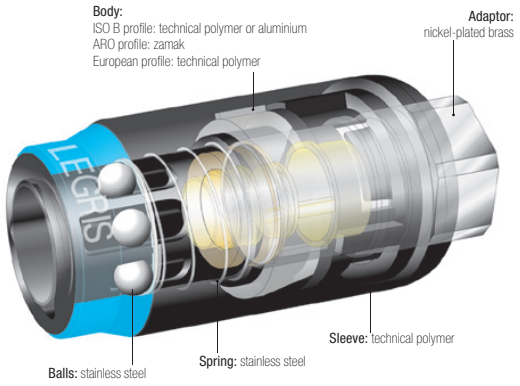
## Technical Characteristics

| | |
|---|---|
| **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**

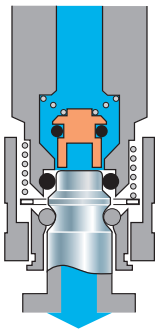



**Silicone-free**

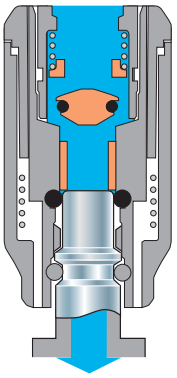
# C 9000 Polymer Quick-Acting Safety Couplers

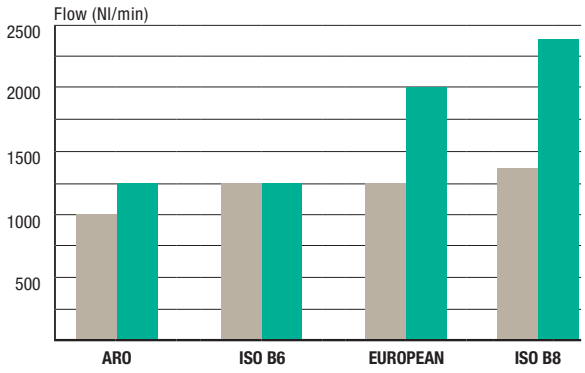
## C 9000 Technology and Flow Rates

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



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






C 9000 Coupler

Standard Couplers

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

# Operation

## Operation

1.



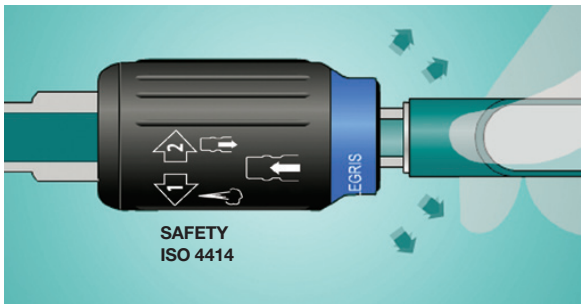
2.



**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.

# Quick-Acting Coupler Part Numbers

Standard Product

**9401 U 06 13**

**Coupler**

**Shut-Off**

Coupler
**0** = straight-through
**1** = single shut-off
**2** = double shut-off
**4** = with safety

Probe
**0** = straight-through
**2** = shut-off

**Configuration**

Coupler
**01** = Male Connector BSPP Thread
**05** = Male Connector BSPT Thread
...
Probe
**85** = Hose Barb Connector
**86** = Female Connector BSPP Thread
...

**Coupler type**

**U** = C 9000: ISO B
**A** = C 9000: ARO
**E** = C 9000: European
**X** = stainless steel coupler
␣ = "blank" for metal coupler

**Series**

C 9000 Coupler
U**06** = ISO B series, 5.5 mm bore, 1250 Nl/min
E**07** = European series, 7.2 mm bore, 2000 Nl/min
...
Metal Coupler
␣ **13** = 13 series, 7.5 mm bore, 1150 Nl/min
␣ **25** = 25 series, 7.4 mm bore, 1800 Nl/min
...

**Connection**

**Thread**
**19** = M5
**10** = 1/8"
**13** = 1/4"
**17** = 3/8"
**21** = 1/2"

**Tube I.D.**
**03** = 3 mm
**04** = 4 mm
...
**19** = 19 mm



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