

# Quick Connect Couplings with International Plug Profiles



The **LUDECKE** product range contains a large selection of quick connect couplings with international plug profiles. They cover the world's most common used plug profiles and ensure high compatibility. These coupling systems are available from DN 5 to DN 10 - depending on requested flow rates.

**LUDECKE** offers quick connect couplings customised to the following countries:

- Great Britain
- Spain
- France
- Benelux countries
- Switzerland
- Asia
- USA
- and others



All series are available in different sizes, connection types, valve types and materials.

# Different Sizes and Versions

For better understanding, products with international plug profiles are divided into groups according to country compatibility. However, it is also possible to break them down into the series **Quality-**, **OptiFlow-** and **SafeConnect-Line**.



## Quality-Line

Standard Quick Connect Couplings

→ In series ESA DN 5.5 / ESO DN 5.5 / ESK DN 7.5 / F1K DN 8

## OptiFlow-Line

Energy-Efficient Quick Connect Couplings with patented OptiFlow by **LUDECKE**® Valve Technology

→ In series ESB DN 5.5 / ESBI DN 5 / ESAI DN 5.5 / ESAIS DN 5.5 / ESOI DN 5.5 / ESOIS DN 5.5 / ESAC DN 8 / ESACG DN 10

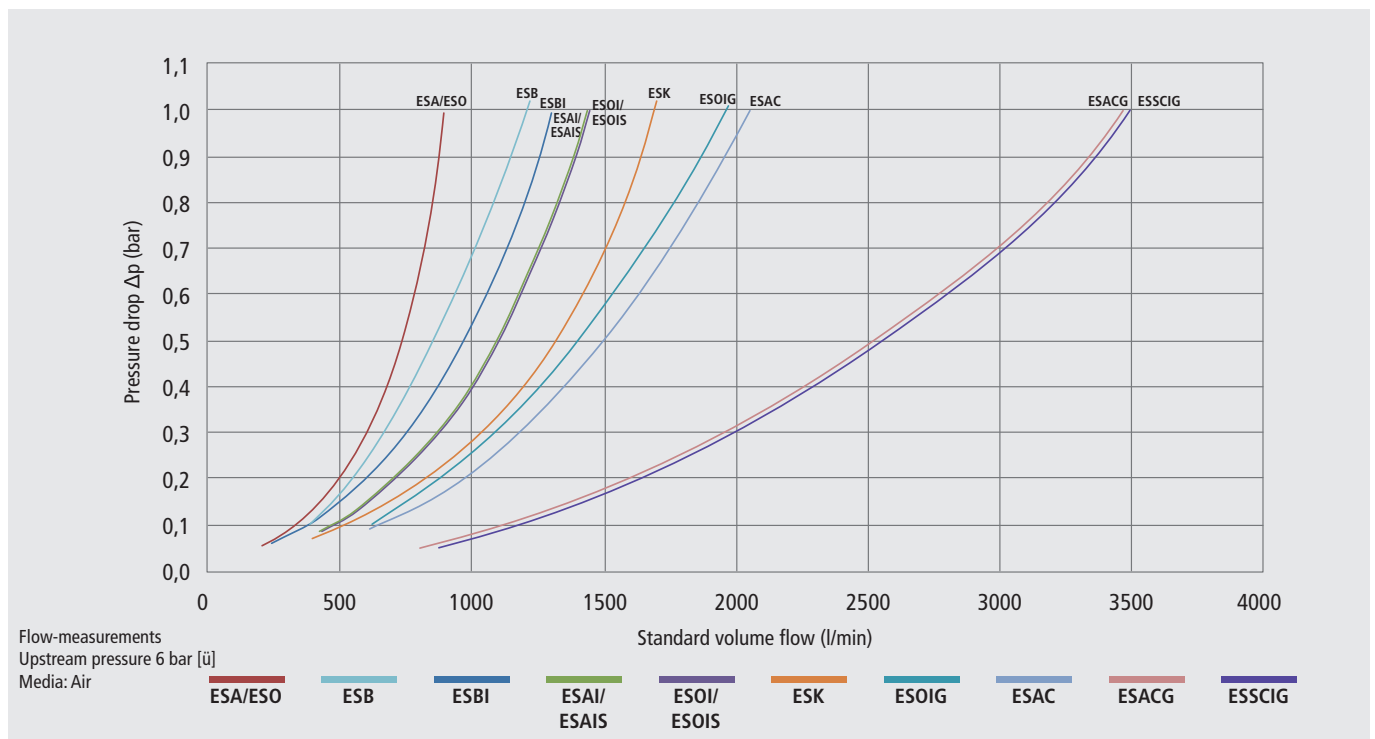
## SafeConnect-Line

Quick Connect Couplings for High-Safety Standards

→ In series ESAIS DN 5.5 / ESOIS DN 5.5

# Chart of Flow Rates

The flow rates of the different coupling systems are summarized in the following chart.

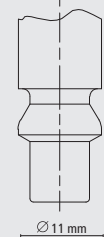
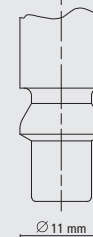
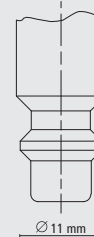
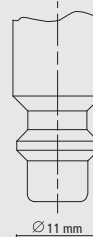
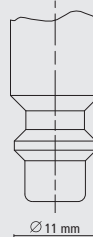


# Overview of Quick Connect Couplings with

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Series      **ESB**      **ESBI**      **ESA**      **ESAI**      **ESAIS**      **ESO**      **ESOI**  
                  DN 5.5      DN 5      DN 5.5      DN 5.5      DN 5.5      DN 5.5      DN 5.5

Plug Profile  
(original size)



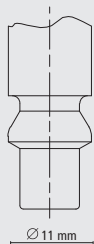
## Materials

|                                                                                     |                                          |                                            |                                                                               |                                                                               |                                                                               |                                                                             |                                                                             |
|-------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Body:                                                                               | MS 58 nickel-plated                      | MS 58 nickel-pl.                           | MS 58 plain                                                                   | MS 58 nickel-pl.                                                              | MS 58 nickel-pl.                                                              | MS 58 plain                                                                 | MS 58 nickel-pl.                                                            |
| Sleeve:                                                                             | Steel hardened + nickel-pl               | Steel hardened + nickel-pl.                | MS 58 plain                                                                   | Steel hardened + nickel-pl.                                                   | Steel hardened + nickel-pl.                                                   | MS 58 plain                                                                 | Steel hardened + nickel-pl.                                                 |
| Valve body:                                                                         | MS 58 nickel-plated                      | Steel hardened + zinc-pl                   | MS 58 plain                                                                   | MS 58 nickel-plated                                                           | MS 58 nickel-plated                                                           | MS 58 plain                                                                 | MS 58 nickel-plated                                                         |
| Valve:                                                                              | MS 58 plain                              | MS 58 plain                                | MS 58 plain                                                                   | MS 58 plain                                                                   | MS 58 plain                                                                   | MS 58 plain                                                                 | MS 58 plain                                                                 |
| Springs, Retaining ring:                                                            | Stainless Steel 1.4310                   | Stainless Steel 1.4310                     | Stainless Steel 1.4310                                                        | Stainless Steel 1.4310                                                        | Stainless Steel 1.4310                                                        | Stainless Steel 1.4310                                                      | Stainless Steel 1.4310                                                      |
| Balls:                                                                              | Stainless Steel 1.4034                   | Stainless Steel 1.4034                     | -                                                                             | Stainless Steel 1.4034                                                        | Stainless Steel 1.4034                                                        | -                                                                           | Stainless Steel 1.4034                                                      |
| Pins:                                                                               | -                                        | -                                          | Stainless Steel 1.4305                                                        | -                                                                             | -                                                                             | Stainless Steel 1.4305                                                      | -                                                                           |
| Seals:                                                                              | NBR                                      | NBR                                        | NBR                                                                           | NBR                                                                           | NBR                                                                           | NBR                                                                         | NBR                                                                         |
| Special seals for other media on request:                                           | -                                        | EPDM/ FKM/ FFKM                            | EPDM/ FKM/ FFKM                                                               | EPDM/ FKM/ FFKM                                                               | EPDM/ FKM/ FFKM                                                               | EPDM/ FKM/ FFKM                                                             | EPDM/ FKM/ FFKM                                                             |
| Plug:                                                                               | Steel hardened + nickel-plated           | Steel hardened + nickel-plated             | MS 58 plain/<br>Steel zinc-pl.+<br>yellow passivated                          | Steel hardened + nickel-plated                                                | Steel hardened + nickel-plated                                                | MS 58 plain                                                                 | Steel hardened + nickel-plated                                              |
| Max. Working Pressure:                                                              | PN 35 bar                                | PN 35 bar                                  | PN 35 bar                                                                     | PN 35 bar                                                                     | PN 12 bar                                                                     | PN 35 bar                                                                   | PN 35 bar                                                                   |
| Temperature:                                                                        | -20°C – +100°C                           | -20°C – +100°C                             | -20°C – +100°C                                                                | -20°C – +100°C                                                                | -20°C – +100°C                                                                | -20°C – +100°C                                                              | -20°C – +100°C                                                              |
| Thread type:                                                                        | ISO 228/ DIN EN 10226                    | ISO 228/ DIN EN 10226                      | ISO 228/ NPT                                                                  | ISO 228/ DIN EN 10226                                                         | ISO 228/ DIN EN 10226                                                         | ISO 228                                                                     | ISO 228/ DIN EN 10226                                                       |
| Max. Flow Capacity:<br>at 6 bar (ü) and 0.5 bar<br>Pressure drop<br>Single shut-off | 800 l/min                                | 950 l/min                                  | 775 l/min                                                                     | 1100 l/min                                                                    | 1100 l/min                                                                    | 775 l/min                                                                   | 1140 l/min                                                                  |
| Type of valve:                                                                      | single                                   | single                                     | single                                                                        | single                                                                        | single                                                                        | single                                                                      | single                                                                      |
| Operation:                                                                          | One-Hand                                 | One-Hand                                   | One-Hand                                                                      | One-Hand                                                                      | One-Hand                                                                      | One-Hand                                                                    | One-Hand                                                                    |
| Norm:                                                                               | -                                        | -                                          | ISO 6150 B<br>US-MIL-Spec. C4109<br>Industr. Interchange 1/4"                 | ISO 6150 B<br>US-MIL-Spec. C4109<br>Industr. Interchange 1/4"                 | ISO 6150 B<br>US-MIL-Spec. C4109<br>Industr. Interchange 1/4"                 | -                                                                           | -                                                                           |
| Interchange:                                                                        | Parker Rectus<br>Series 19<br>PCL60 (UK) | Parker Rectus<br>Series 17<br>Schrader NW5 | Parker Rectus Series 23/24,<br>Hansen 3000, Cejn 310,<br>Milton, Gromelle 600 | Parker Rectus Series 23/24,<br>Hansen 3000, Cejn 310,<br>Milton, Gromelle 600 | Parker Rectus Series 23/24,<br>Hansen 3000, Cejn 310,<br>Milton, Gromelle 600 | Parker Rectus Series 14/22,<br>ARO 210, Cejn 300, Orion<br>44510, Parker 50 | Parker Rectus Series 14/22,<br>ARO 210, Cejn 300,<br>Orion 44510, Parker 50 |
| Area:                                                                               | Great Britain                            | Great Britain, Europe                      | USA, Spain, France                                                            | USA, Spain, France                                                            | USA, Spain, France                                                            | Benelux, Switzerland                                                        | Benelux, Switzerland                                                        |
| Page:                                                                               | 86                                       | 87                                         | 88                                                                            | 90                                                                            | 91                                                                            | 92                                                                          | 93                                                                          |

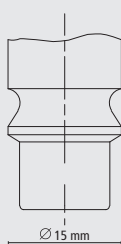
# International Plug Profiles

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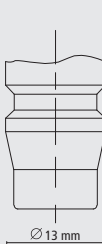
**ESOIS**  
DN 5.5



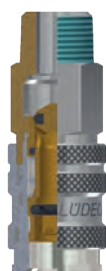
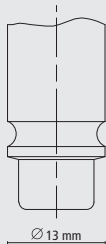
**ESOIG**  
DN 9



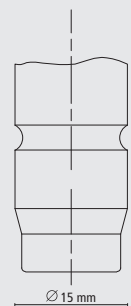
**ESK**  
DN 7.5



**ESAC**  
DN 8

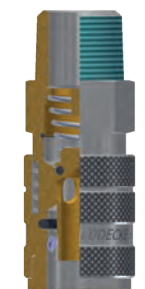
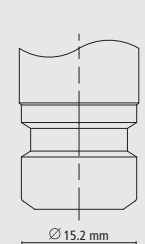


**ESACG**  
DN 10

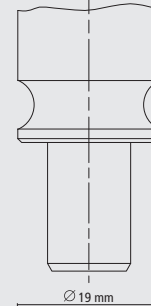


NEW!

**ESSCIG**  
DN 10



**F1K**  
DN 8



|                                                                             |                                                              |                                                                |                                                    |                                                      |                                                       |                                          |
|-----------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------|------------------------------------------------------|-------------------------------------------------------|------------------------------------------|
| MS 58 nickel-plated<br>Steel hardened + nickel-pl.                          | MS 58 plain<br>MS 58 plain                                   | MS 58 plain<br>MS 58 nickel-pl.                                | MS 58 nickel-plated<br>Steel hardened + nickel-pl. | MS 58 nickel-plated<br>Steel hardened + nickel-pl.   | MS 58 nickel-plated<br>MS 58 nickel-plated            | Steel zinc-pl.+yellow pass               |
| MS 58 nickel-plated<br>MS 58 plain                                          | MS 58 plain<br>MS 58 plain                                   | MS 58 plain<br>MS 58 plain                                     | Steel hardened + zinc-pl.<br>MS 58 plain           | Steel zinc-plated<br>MS 58 plain                     | MS 58 nickel-plated<br>MS 58 plain                    | Steel zinc-pl.+yellow pass.              |
| Stainless Steel 1.4310<br>Stainless Steel 1.4034                            | Stainless Steel 1.4310<br>-                                  | Stainless Steel 1.4310<br>-                                    | Stainless Steel 1.4310<br>Stainless Steel 1.4034   | Stainless Steel 1.4310<br>Stainless Steel 1.4034     | Stainless Steel 1.4310<br>Stainless Steel 1.4034      | MS 58 plain<br>Stainless Steel 1.4310    |
| -                                                                           | Stainless Steel 1.4305                                       | Stainless Steel 1.4305                                         | -                                                  | -                                                    | -                                                     | Stainless Steel 1.4034                   |
| NBR                                                                         | NBR                                                          | NBR                                                            | NBR                                                | NBR                                                  | NBR                                                   | NBR                                      |
| EPDM/ FKM/ FFKM                                                             | EPDM/ FKM/ FFKM                                              | EPDM/ FKM/ FFKM                                                | EPDM/ FKM/ FFKM                                    | EPDM/ FKM                                            | EPDM/ FKM                                             | EPDM/ FKM/ FFKM                          |
| Steel hardened +<br>nickel-plated                                           | Steel hardened +<br>nickel-plated                            | Steel hardened +<br>nickel-plated                              | Steel hardened +<br>zinc-plated                    | Steel hardened +<br>nickel-plated                    | Steel nickel-plated                                   | Steel zinc-plated +<br>yellow passivated |
| PN 12 bar<br>-20°C – +100°C                                                 | PN 35 bar<br>-20°C – +100°C                                  | PN 35 bar<br>-20°C – +100°C                                    | PN 35 bar<br>-20°C – +100°C                        | PN 35 bar<br>-20°C – +100°C                          | PN 35 bar<br>-20°C – +100°C                           | PN 35 bar<br>-20°C – +100°C              |
| ISO 228/ DIN EN 10226                                                       | ISO 228/ DIN EN 10226                                        | ISO 228/ DIN EN 10226                                          | ISO 228/ DIN EN 10226                              | ISO 228/ DIN EN 10226                                | ISO 228/ DIN EN 10226                                 | ISO 228                                  |
| 1140 l/min                                                                  | 1400 l/min                                                   | 1375 l/min                                                     | 1650 l/min                                         | 2600 l/min                                           | 2900 l/min                                            | 1800 l/min                               |
| single                                                                      | single                                                       | single                                                         | single                                             | single                                               | single/double                                         | single                                   |
| One-Hand                                                                    | One-Hand                                                     | One-Hand                                                       | One-Hand                                           | One-Hand                                             | One-Hand/ Two-Hands                                   | Two-Hands                                |
| -                                                                           | -                                                            | -                                                              | -                                                  | -                                                    | -                                                     | -                                        |
| Parker Rectus Series 14/22,<br>ARO 210, Cejn 300,<br>Orion 44510, Parker 50 | Rectus Series 40 KA,<br>ARO 310, Orion<br>44520, Orion 44530 | Parker Rectus Series 13/03,<br>Nitto Kohki 200<br>Cejn 314/315 | Parker Rectus Series 33<br>Atlas Copco QIC 10      | Parker Rectus<br>Series 34 KA,<br>Atlas Copco QIC 15 | Parker Rectus Series 32,<br>Cejn 408,<br>Tema 1800 SF | -                                        |
| Benelux, Switzerland                                                        | Benelux, Switzerland                                         | especially Asia                                                | worldwide                                          | worldwide                                            | Scandinavia                                           | worldwide                                |
| 94                                                                          | 95                                                           | 96                                                             | 97                                                 | 98                                                   | 99                                                    | 101                                      |

Steel zinc-pl. + yellow pass. = Steel zinc-plated and yellow passivated