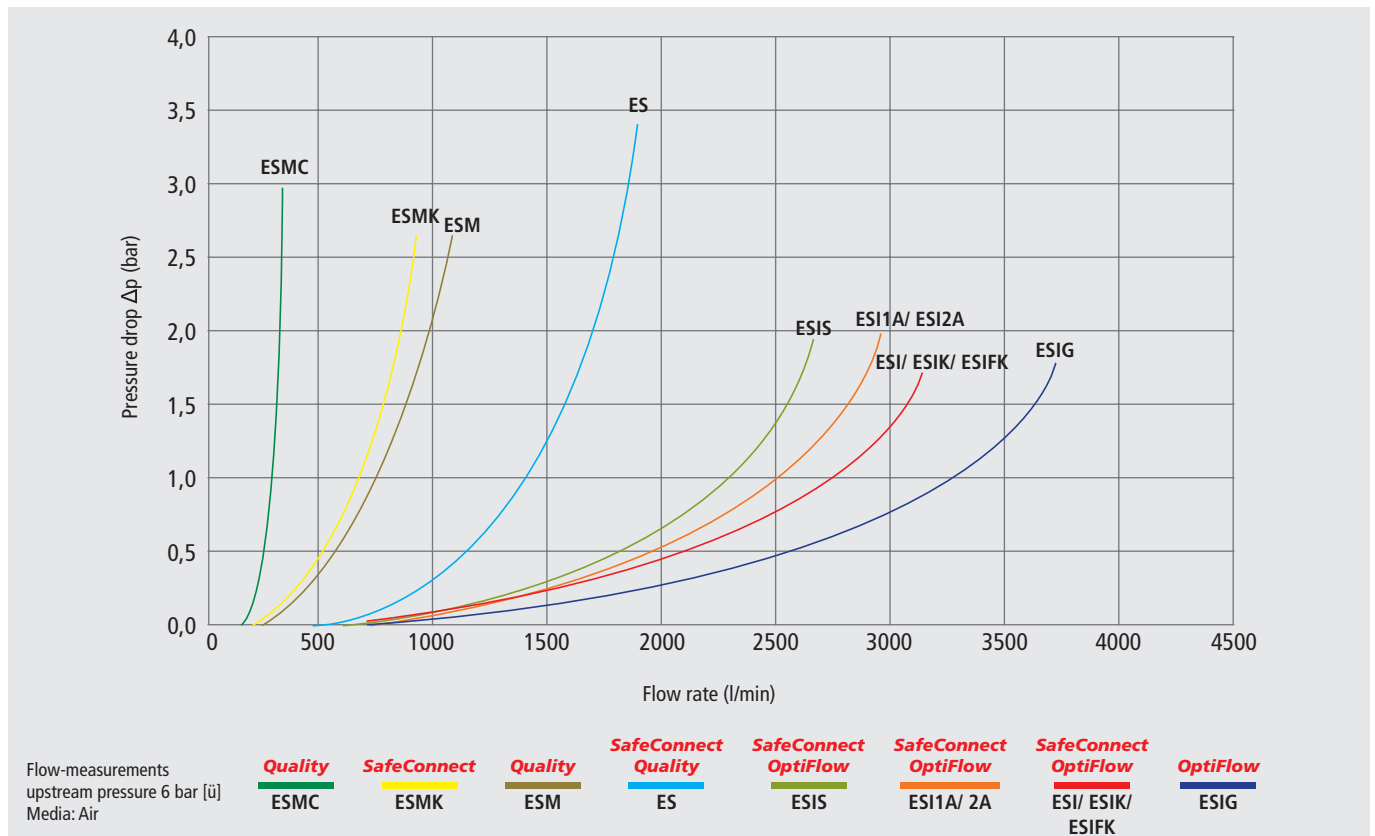


The flow rates of our coupling systems are summarized in the following chart.



## Testing Panel

To train and thoroughly test our quick connect couplings, we developed Testing Panels. These sample bars represent the quick connect coupling series from DN 2.7 up to DN 10 of our **Quality-**, **OptiFlow-** and **SafeConnect-Line** as well as the MODY spiral hoses under pressure.

## Your advantages:

- Extensive information about each product and how they work
- Testing high-quality products under real life conditions (the coupling procedure may be executed with media passing through the lines)
- Multilingual: German and English (on request, also in other languages)

Product Information

Functional Description

Application Possibilities (coupling)

Compressed Air Connection

Since 1930. The perfect connection.

## TESTING PANEL Pneumatics

Quick Connect Couplings with Standard Plug Profiles

To supply compressed air in industry and laboratories, pneumatic, measurement, control and regulation technique

Series: **ESMC** **ESM** **ES** **ESI** **ESIS** **ESIG**

Material: **ESMC** **ESM** **ES** **ESI** **ESIS** **ESIG**

Plug profiles original size

Pressure range: 10 bar

Temperature range: -20°C to +100°C

Max. Working pressure: 10 bar

Max. Working temperature: -20°C to +100°C

Modul: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 120, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000, 1100, 1200, 1300, 1400, 1500, 1600, 1700, 1800, 1900, 2000, 2100, 2200, 2300, 2400, 2500, 2600, 2700, 2800, 2900, 3000, 3100, 3200, 3300, 3400, 3500, 3600, 3700, 3800, 3900, 4000, 4100, 4200, 4300, 4400, 4500, 4600, 4700, 4800, 4900, 5000, 5100, 5200, 5300, 5400, 5500, 5600, 5700, 5800, 5900, 6000, 6100, 6200, 6300, 6400, 6500, 6600, 6700, 6800, 6900, 7000, 7100, 7200, 7300, 7400, 7500, 7600, 7700, 7800, 7900, 8000, 8100, 8200, 8300, 8400, 8500, 8600, 8700, 8800, 8900, 9000, 9100, 9200, 9300, 9400, 9500, 9600, 9700, 9800, 9900, 10000

Modul: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 120, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000, 1100, 1200, 1300, 1400, 1500, 1600, 1700, 1800, 1900, 2000, 2100, 2200, 2300, 2400, 2500, 2600, 2700, 2800, 2900, 3000, 3100, 3200, 3300, 3400, 3500, 3600, 3700, 3800, 3900, 4000, 4100, 4200, 4300, 4400, 4500, 4600, 4700, 4800, 4900, 5000, 5100, 5200, 5300, 5400, 5500, 5600, 5700, 5800, 5900, 6000, 6100, 6200, 6300, 6400, 6500, 6600, 6700, 6800, 6900, 7000, 7100, 7200, 7300, 7400, 7500, 7600, 7700, 7800, 7900, 8000, 8100, 8200, 8300, 8400, 8500, 8600, 8700, 8800, 8900, 9000, 9100, 9200, 9300, 9400, 9500, 9600, 9700, 9800, 9900, 10000

Modul: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 120, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000, 1100, 1200, 1300, 1400, 1500, 1600, 1700, 1800, 1900, 2000, 2100, 2200, 2300, 2400, 2500, 2600, 2700, 2800, 2900, 3000, 3100, 3200, 3300, 3400, 3500, 3600, 3700, 3800, 3900, 4000, 4100, 4200, 4300, 4400, 4500, 4600, 4700, 4800, 4900, 5000, 5100, 5200, 5300, 5400, 5500, 5600, 5700, 5800, 5900, 6000, 6100, 6200, 6300, 6400, 6500, 6600, 6700, 6800, 6900, 7000, 7100, 7200, 7300, 7400, 7500, 7600, 7700, 7800, 7900, 8000, 8100, 8200, 8300, 8400, 8500, 8600, 8700, 8800, 8900, 9000, 9100, 9200, 9300, 9400, 9500, 9600, 9700, 9800, 9900, 10000

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# Overview of Quick Connect Couplings with

## Quality-Line

## OptiFlow-Line

Series

**ESMC**  
DN 2.7

**ESM**  
DN 5

**ES**  
DN 7.2

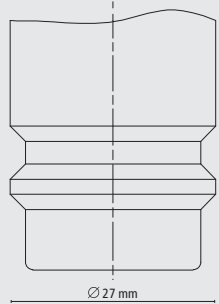
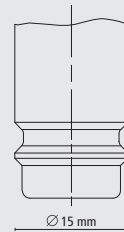
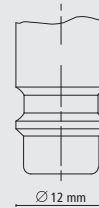
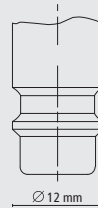
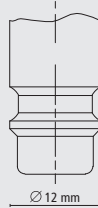
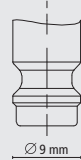
**ESI**  
DN 7.8

**ESIS\***  
DN 7.8

**ESIG**  
DN 10

**ESG**  
DN 19

Plug Profile  
(original size)



### Materials:

|                                                                      |                                  |                                               |                                               |                                     |                                     |                                          |                                     |
|----------------------------------------------------------------------|----------------------------------|-----------------------------------------------|-----------------------------------------------|-------------------------------------|-------------------------------------|------------------------------------------|-------------------------------------|
| Body:                                                                | MS 58 (plain/n-plated)           | MS 58 (plain/n-plated)                        | MS 58 (plain/n-plated)                        | MS 58 nickel-plated                 | MS 58 nickel-plated                 | MS 58 nickel-plated                      | MS 58 plain                         |
| Sleeve:                                                              | MS 58 (plain/n-plated)           | MS 58 (plain/n-plated)                        | MS 58 (plain/n-plated)                        | Steel hardened + nickel-pl.         | Steel hardened + nickel-pl.         | Steel hardened + nickel-pl.              | MS 58 plain                         |
| Valve Body:                                                          | MS 58 (plain/n-plated)           | MS 58 (plain/n-plated)                        | MS 58 (plain/n-plated)                        | MS 58 nickel-plated                 | MS 58 nickel-plated                 | MS 58 nickel-plated                      | MS 58 plain                         |
| Valve:                                                               | MS 58 (plain/n-plated)           | MS 58 (plain/n-plated)                        | MS 58 (plain/n-plated)                        | 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 1.3541           | Stainless Steel 1.3541                        | -                                             | Stainless Steel 1.4034              | Stainless Steel 1.4034              | Stainless Steel 1.4034                   | Stainless Steel 1.4034              |
| Pins:                                                                | -                                | -                                             | 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                                | EPDM, FKM, FFKM                     |
| Plugs:                                                               | MS 58 (plain/nickel-plated)      | MS 58 (plain/nickel-plated)/steel zinc-plated | MS 58 (plain/nickel-plated)/steel zinc-plated | Steel hardened + nickel-plated      | Steel hardened + nickel-plated      | Steel hardened + nickel-plated           | MS 58 plain                         |
| 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 types:                                                        | ISO 228/ DIN 13                  | ISO 228/ DIN 13                               | ISO 228/ DIN EN 10226/ DIN 13                 | ISO 228/ DIN EN 10226               | ISO 228/ DIN EN 10226               | ISO 228/ DIN EN 10226                    | ISO 228                             |
| Flow rate:<br>at 6 bar [ü] and 0.5 bar pressure drop single shut-off | 165 l/min                        | 510 l/min                                     | 1100 l/min                                    | 2000 l/min                          | 1800 l/min                          | 3200 l/min                               | 8000 l/min                          |
| Type of valve:                                                       | single/ double/ straight-through | single/ double/ straight-through              | single/ double/ straight-through              | single/ double/ straight-through    | single                              | single/ double/ straight-through         | single/ double                      |
| Operation:                                                           | One-Hand                         | One-Hand                                      | One-Hand                                      | One-Hand                            | One-Hand                            | One-Hand                                 | One-Hand                            |
| Interchange:                                                         | Parker Rectus Series 20          | Parker Rectus Series 21                       | Parker Rectus Series 25/26 Cejn 320           | Parker Rectus Series 25/26 Cejn 320 | Parker Rectus Series 25/26 Cejn 320 | Parker Rectus Series 27/41/1700 Cejn 410 | Parker Rectus Series 39 Hansen 7000 |
| Page:                                                                | 32                               | 37                                            | 43                                            | 54                                  | 68                                  | 59                                       | 62                                  |

# European Plug Profiles

**SafeConnect-Line**

**NEW!**

**ESIS\***  
DN 7.8

**ES**  
DN 7.2

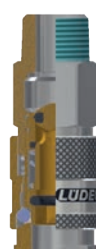
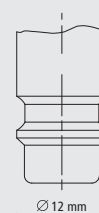
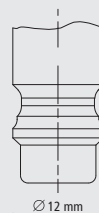
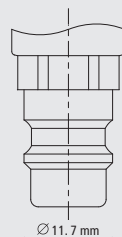
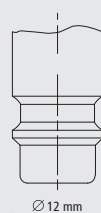
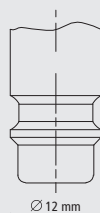
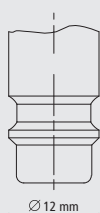
**ESI\***  
DN 7.8

**ESIK\***  
DN 7.8

**ESI1A/2A\***  
DN 7.4

**ESMK**  
DN 5

**ESIFK\***  
DN 7.8



|                                           |                                               |                                           |                                                               |                                           |                                          |                                          |
|-------------------------------------------|-----------------------------------------------|-------------------------------------------|---------------------------------------------------------------|-------------------------------------------|------------------------------------------|------------------------------------------|
| MS 58 nickel-plated                       | MS 58 plain                                   | MS 58 nickel-plated                       | MS 58 nickel-plated                                           | MS 58 nickel-plated                       | MS 58 plain                              | MS 58 plain                              |
| Steel hardened + nickel-pl.               | MS 58 plain                                   | Steel hardened + nickel-pl.               | Steel hardened + nickel-pl.                                   | MS 58 nickel-plated                       | Aluminium anodised                       | Aluminium anodised                       |
| MS 58 nickel-plated                       | MS 58 plain                                   | MS 58 nickel-plated                       | MS 58 nickel-plated                                           | MS 58 nickel-plated                       | MS 58 plain                              | MS 58 plain                              |
| MS 58 plain                               | MS 58 plain                                   | MS 58 plain                               | MS 58 plain                                                   | MS 58 plain                               | MS 58 plain                              | MS 58 plain                              |
| 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                   |
| Stainless Steel 1.4034                    | -                                             | Stainless Steel 1.4034                    | Stainless Steel 1.4034                                        | Stainless Steel 1.4034                    | Stainless Steel 1.3541                   | Stainless Steel 1.4034                   |
| -                                         | Stainless Steel 1.4305                        | -                                         | -                                                             | -                                         | -                                        | -                                        |
| NBR                                       | NBR                                           | NBR                                       | NBR                                                           | NBR                                       | NBR                                      | NBR                                      |
| EPDM, FKM, FFKM                           | EPDM, FKM, FFKM                               | EPDM, FKM, FFKM                           | EPDM, FKM, FFKM                                               | EPDM, FKM, FFKM                           | EPDM, FKM, FFKM                          | EPDM, FKM, FFKM                          |
| Steel hardened + nickel-plated            | MS 58 (plain/nickel-plated)/steel zinc-plated | Steel hardened + nickel-plated            | Steel hardened + nickel-plated                                | MS 58 nickel-plated                       | MS 58 plain with anodized aluminium ring | MS 58 plain with anodized aluminium ring |
| PN 12 bar                                 | PN 35 bar                                     | PN 35 bar                                 | PN 35 bar                                                     | PN 35 bar                                 | PN 35 bar                                | PN 35 bar                                |
| -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                           |
| ISO 228/<br>DIN EN 10226                  | ISO 228                                       | ISO 228/<br>DIN EN 10226                  | ISO 228/<br>DIN EN 10226                                      | ISO 228/<br>DIN EN 10226                  | ISO 228                                  | ISO 228                                  |
| 1800 l/min                                | 1100 l/min                                    | 2000 l/min                                | 2000 l/min                                                    | 1800 l/min                                | 430 l/min                                | 2000 l/min                               |
| single                                    | single                                        | single                                    | single                                                        | single                                    | single/ double                           | single                                   |
| One-Hand                                  | One-Hand                                      | One-Hand                                  | One-Hand                                                      | Two-Hands                                 | One-Hand                                 | One-Hand                                 |
| Parker Rectus<br>Series 25/26<br>Cejn 320 | Parker Rectus<br>Series 25/26<br>Cejn 320     | Parker Rectus<br>Series 25/26<br>Cejn 320 | Parker Rectus<br>Series 25/26, Cejn 320<br>Steinco Series 125 | Parker Rectus<br>Series 95/96<br>Cejn 320 | Parker Rectus<br>Series 21               | Parker Rectus<br>Series 25 KA            |
| 68                                        | 69                                            | 70                                        | 72                                                            | 74/ 75                                    | 76                                       | 80                                       |
| Self-Venting                              | Sleeve Lock Mechanism                         |                                           |                                                               | Visual Identification                     |                                          |                                          |

\* SafeConnect-Line + OptiFlow-Line