Transportation – Railway
Quick Connect Coupling Systems for Rail Vehicle Applications
Maximum Precision and Reliability

The product advantages at a glance:

- High resistance to vibrations and dirt (e.g., 7000-Series).
- Certified safety - vibration and shock test in accordance with DIN EN 61373/IEC 61373.
- Low pressure drop for maximum energy efficiency.
- Compact design for installation in applications where little space is available.
- Various sizes from nominal diameter 3 mm up to 20 mm.
- Broad selection of sealing materials for optimal co-ordination with temperature (-55°C up to +200°C) and flow medium.
- High resistance to rotation.
- No leakage when disconnected due to the specially developed valve design – even after a long time and pressurisation (all flat-sealing variants).

We meet the highest requirements!

Quick connect coupling systems from Parker – a safe solution in the area of rail vehicles

Vibrations, dirt and extreme mechanical and climatic stress are the principal challenges for our quick connect coupling systems in the area of electric and diesel-powered rail vehicles. The functional safety of the systems plays a major role here with the many electronic and pneumatic controls, in addition to the requirements with respect to reliability (failure safety) and availability. Particularly in the area rail, there are specific directives and safety standards for processes, with which our systems must comply (for example the vibration and shock test in accordance with DIN EN 61373/IEC 61373).

With over 60 years of experience in the development and sale of high-quality quick connect coupling systems, the Low Pressure Connectors Europe of Parker Hannifin – the world’s leading manufacturer in motion and control technologies – now offers one of the most extensive product ranges of innovative connection solutions. Whether for complete or sub-systems, we always have a tried and tested solution.

From standard product to bespoke systems, our team is available to provide you with competent advice at any time. We are happy to provide detailed advice – please ask us.

60 Years of Know-How

We set standards industrywide

Materials

For coupling systems in the area of rail vehicles, the materials brass and stainless steel in particular have proven themselves. Brass is generally used with a nickel plated finish – depending on the series, we offer stainless steel in qualities AISI 303 and AISI 316 L. Other materials are also possible of course, depending on application. Our team is happy to advise you here.

Seals

A coupling can only be as good as its sealing components. This is why we rely on EPDM and NBR as standard for our sealing materials – particularly NBR for extremely low temperatures. For challenging requirements, our experts will, of course, offer completely individual advice and develop an optimum solution.

Dirt Protection

For outdoor applications, we have developed coupling systems that have seals integrated both into the unlocking sleeve and into the plug - the complete coupling (incl. locking system) is therefore sealed when coupled and is effectively protected from dirt and spray water.

Valves

Depending on the application area, Parker LPCE coupling systems are available with straight-through, single or double shut-off, and in clean break design. To ensure fault free operation all valve seals are the same as the main seal choice.

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**Plumbing and Water Treatment**

Quick connect couplings are also used in the area of on-board toilet systems and water treatment in mobile installations. A special system has been developed in the area of vacuum toilets.

- Development of a complete system: series 26 is jointly responsible for filling the water tank; series 21 brings applies pressure to the toilet in the flushing process so that the water can be flushed out accordingly – until the purge valve is opened.
- Use of non-corroding coupling systems.

**Other Applications**

To this day, pneumatics remains an important element in rail vehicles. Coupling systems from Parker LPCE are used in many applications for connecting compressed air components:

- In purely pneumatic door drives.
- For folding steps, sliding steps and ramps with pneumatic drives.
- In sanding systems.
- In pneumatic pantograph systems.

**Cooling**

**Air Conditioning Systems and Electronic Cooling**

Quick connect couplings from Parker LPCE for cooling systems are a reliable and powerful solution. They guarantee optimal cooling of many applications used in diesel-powered or electric rail vehicles.

- Quick connect couplings in the area of air conditioning systems.
- Dissipation of heat arising from electrical power loss.
- We provide efficient cooling quick couplers for transformers, converters, traction motors and virtually all areas of cooling for electronic applications.

**Braking Systems**

**Pneumatic Braking Systems**

Our range includes special coupling systems for functional testing of braking systems. These systems are used both in the initial fitting and in continuous regulation braking tests before any use of a rail vehicle.

- Reliable and rapid functional testing with easy handling.
- Maximum compressed air efficiency from functional couplings with blanking plugs.
- Special test couplings control the various braking circuits individually.
- Measurements of the braking signals directly on the rim mounting.
- Developed for temperatures down to -55°C.
Product Solutions in the Area of Cooling, Plumbing, Brakes and Other Pneumatic Applications

Our products in use at a glance
## Interchangeable Profiles at a Glance

Find the ideal product for your application

<table>
<thead>
<tr>
<th>Series 303</th>
<th>Series 18</th>
<th>Series 7000</th>
<th>Series 200KL</th>
<th>Series 21</th>
<th>Series 26</th>
<th>DN-Series</th>
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<tr>
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<tr>
<td>Plumbing / Water Treatment</td>
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<td></td>
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<tr>
<td>Pneumatic Applications</td>
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### Valves¹)

<table>
<thead>
<tr>
<th>Valves</th>
<th>Single-hand operation</th>
<th>Compact design</th>
<th>External seal for external use</th>
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<tbody>
<tr>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

### Working Pressure

- 35 bar
- 35 bar
- 16 bar
- 15 bar
- 35 bar
- 35 bar
- 5 bar
- 12 bar

### Nominal Diameter (mm)

- 3
- 5.5
- 6/9/12/16/20
- 4/6/9/12/19
- 5
- 7.2
- 5/12/16

### Technical Information

- Single-hand operation
- Compact design
- External seal for external use
- External seal for external use
- Single-hand operation
- Dry-break coupling system
- Single-hand operation
- Compact design
- World's most popular profile
- Single-hand operation
- Compact design
- European industrial interchange
- Single-hand operation
- Compact design
- World's most popular profile
- Single-hand operation
- Compact design
- World's most popular profile
- Swivelling double nipple
- 1 Mio. turning cycles at +/- 15°
- Guarantee a long service life of hose

### Plug Profile

- Brass
- Brass
- Brass
- Brass
- Brass
- Brass
- Steel

### Material (Coupling Body)

- Brass AISI 316 L
- Brass
- Brass AISI 303
- Brass AISI 316 L
- Brass AISI 303
- Brass AISI 316 L
- Steel

### Seals

- NBR, EPDM, FKM
- NBR, EPDM, FKM
- NBR, EPDM, FKM
- NBR, EPDM, FKM
- NBR, EPDM, FKM
- NBR, EPDM, FKM
- EPDM + Cryogenic PU

### Working Temperature

- -55°C up to +100°C (Cryogenic NBR)
- -55°C up to +100°C (Cryogenic NBR)
- -40°C up to +150°C (EPDM)
- -40°C up to +150°C (EPDM)
- -20°C up to +100°C (NBR)
- -20°C up to +100°C (NBR)
- -50°C up to +100°C (EPDM)

¹Valve types:  [straight-through (KF)]  [single shut-off (KA)]  [double shut-off (KB)]  [dry-break (KL)]
**Technical Description**

Mini coupling with a plug profile in accordance with ISO 6150 C. The coupling impresses with compact design and single-hand operation - allowing coupling and uncoupling with one hand even in places where access is difficult. Above-average flow rates ensure fast and reliable control of the pneumatic braking circuits.

**Advantages**

The coupling system has an external seal on the locking system for external use and a blind plug with stainless steel cable. Cryogenic seals for use at -55°C.

**Working Temperature**

-55°C to +100°C (Cryogenic NBR) depending on the medium.

Special seals are available on request.

---

**Max. Working Pressure**

35 bar

*maximum static working pressure with safety factor 4 to 1.

**Material**

- **Coupling:** Brass nickel plated or Stainless Steel
- **Plug:** Brass nickel plated or Stainless Steel
- **Seals:** Cryogenic NBR

**Applications**

- Pneumatic Braking Systems
- Pneumatic Applications

---

**Single Shut-Off**

**Flow diagram**

Air

Flow Rate in l/min

---

**Rectus Series 303**

**Nominal Diameter**

3

---

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- Pneumatic Braking Systems
- Pneumatic Applications

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**Single Shut-Off**

**Flow diagram**

Air

Flow Rate in l/min

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**Rectus Series 303**

**Nominal Diameter**

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Mini coupling with a plug profile in accordance with ISO 6150 C. The coupling impresses with compact design and single-hand operation - allowing coupling and uncoupling with one hand even in places where access is difficult. Above-average flow rates ensure fast and reliable control of the pneumatic braking circuits.

**Advantages**

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**Working Temperature**

-55°C to +100°C (Cryogenic NBR) depending on the medium.

Special seals are available on request.
### Technical Description

Coupling with a plug profile in accordance with ISO 6150 C. The coupling impresses with compact design and single-hand operation – allowing coupling and uncoupling with one hand even in places where access is difficult. Above-average flow rates ensure fast and reliable control of the pneumatic braking circuits.

### Advantages

- The coupling system has an external seal on the locking system for external use and a blank plug with stainless steel cable. Cryogenic seals for use at -55°C.
- Working Temperature: -55°C to +100°C [Cryogenic NBR] depending on the medium.
- Special seals are available on request.

### Material

- **Coupling:** Brass nickel plated
- **Plug:** Steel nickel plated
- **Seals:** Cryogenic NBR

### Applications

- Pneumatic Braking Systems
- Pneumatic Applications

### Single Shut-Off

- **Max. Working Pressure**: 35 bar
  - Maximum static working pressure with safety factor 4 to 1.

### Flow diagram

```
Air

Flow Rate in l/min
```

### Couplings – with valve

<table>
<thead>
<tr>
<th>DN</th>
<th>Connection A</th>
<th>HEX</th>
<th>L mm</th>
<th>L1 mm</th>
<th>D mm</th>
<th>Version</th>
<th>Part Number</th>
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<tbody>
<tr>
<td>5,5</td>
<td>G 1/4</td>
<td>19</td>
<td>62,2</td>
<td>9,2</td>
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<td>5,5</td>
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</tr>
</tbody>
</table>

**Male Thread with front O-ring**

### Plugs – without valve

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<tr>
<th>DN</th>
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</thead>
<tbody>
<tr>
<td>5,5</td>
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<td>41</td>
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<tr>
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<td>19</td>
<td>41</td>
<td>9</td>
<td>Steel</td>
<td>18SFAW17SXN</td>
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**Male Thread**

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<tr>
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<td>18SFHW17SXN</td>
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</table>

**Female Thread**

### Please consider our security advices in our main catalogues.
Transportation
Railway
Transportation
Railway

Please consider our security advices in our main catalogues.

Max. Working Pressure:
16 bar
/ maximum static working pressure with safety factor 4 to 1.

Material:
Coupling: Brass chemical nickel plated or Stainless Steel
Plug: Brass chemical nickel plated or Stainless Steel
Seals: EPDM

Applications
• Air Conditioning Systems / Electronic Cooling
• Plumbing / Water Treatment

Advantages
Additional external locking system seal for external use. Dust caps with stainless steel cable are available on request. Splash-proof design, i.e. no water discharge during the connection process. Double sealed when connected.

Working Temperature:
-40°C up to +150°C (EPDM) depending on the medium.
Special seals are available on request.

Technical Description
Series 7000 is available in four different nominal diameters. It stands out for the very high level of reliability with respect to the seal, as the plug already seals in the coupling before the valves open when engaging the coupling and seals the connection reliably with a double seal when connected.

Series 7000 has an additional external seal in the coupling and plug specifically for outdoor applications, so that the locking system is completely protected from dirt and spray water when connected.

Double Shut-Off

Flow diagrams

Water

Flow Rate in l/min

Pressure Drop (bar)

Flow diagrams

Water

Flow Rate in l/min

Pressure Drop (bar)

Flow diagrams

Water

Flow Rate in l/min

Pressure Drop (bar)

Flow diagrams

Water

Flow Rate in l/min

Pressure Drop (bar)

Flow diagrams

Water

Flow Rate in l/min

Pressure Drop (bar)

Flow diagrams

Water

Flow Rate in l/min

Pressure Drop (bar)

Flow diagrams

Water

Flow Rate in l/min

Pressure Drop (bar)

Flow diagrams

Water

Flow Rate in l/min

Pressure Drop (bar)

Flow diagrams

Water

Flow Rate in l/min

Pressure Drop (bar)

Flow diagrams

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Flow Rate in l/min

Pressure Drop (bar)

Flow diagrams

Water

Flow Rate in l/min

Pressure Drop (bar)
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<tr>
<th>DN</th>
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<th>HEX mm</th>
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**Male Thread with front O-ring**

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**Male thread with 24° sealing cone in accordance with ISO 8434-1 Series L**

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**Plugs – with valve**

Series 7000

Please consider our security advices in our main catalogues
Technical Description
Dry-break coupling system for applications in sensitive environments, for example in cooling systems, transport systems and many applications with aggressive media. Nominal Diameter 12 and 19 are available on request.

Advantages
Coupling system with single-hand operation, extremely low leakage rates and minimal dead space volume. Absolutely no air pockets when coupling and only a barely noticeable film of the medium being channeled on the valve bodies when uncoupling. Ergonomic sleeve design. Low coupling forces. Valve body protected by collar design.

Working Temperature
-40°C up to +150°C (EPDM) depending on the medium. Special seals are available on request.

### Nominal Diameter

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### Dry-Break

- **Max. Working Pressure**
  15 bar
  *maximum static working pressure with safety factor 4 to 1.

- **Material**
  - Coupling: Brass nickel plated or Stainless Steel
  - Plug: Brass nickel plated or Stainless Steel
  - Seals: EPDM

- **Applications**
  - Air Conditioning Systems /
  - Electronic Cooling

### Flow diagrams

**Water**

- **Pressure Drop (bar)**
- **Flow Rate in l/min**

**Water**

- **Pressure Drop (bar)**
- **Flow Rate in l/min**

**Water**

- **Pressure Drop (bar)**
- **Flow Rate in l/min**


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Please consider our security advices in our main catalogues

### Technical Description
Mini industrial coupling with the world’s most popular profile in this nominal diameter. Above average flow performance for liquid and gaseous media.

### Advantages
Coupling system with single-hand operation. Small dimensions and large band width in materials and valve variants.

### Max. Working Pressure*
35 bar

* maximum static working pressure with safety factor 4 to 1.

### Material
- **Coupling**: Brass nickel plated or Stainless Steel
- **Plug**: Brass nickel plated or Stainless Steel
- **Seals**: NBR or FKM

### Applications
- * Plumbing / Water Treatment* (with valve Series 21KA)

### Flow diagrams
- **Air**
- **Water**

### Nominal Diameter
5

### Rectus Series
21

### Rectus Series 21KA

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### Male Thread
- **Connection**: G 1/8 14 36 7 16
- **Seal**: NBR
- **Part Number**: 21KAAW10MPN

### Female Thread
- **Connection**: G 1/8 14 36 7 16
- **Seal**: AISI 303
- **Part Number**: 21KAAW10RXV

### Pressures and Flow Rates

#### Air
- **Pressure Drop (bar)**
- **Flow Rate in l/min**

#### Water
- **Pressure Drop (bar)**
- **Flow Rate in l/min**

### Please consider our security advices in our main catalogues

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*Please consider our security advices in our main catalogues*
### Plugs – without valve

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### Couplings – with valve

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⚠️ Please consider our security advices in our main catalogues.
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Technical Description
Universal brass coupling with European standard industrial profile. Version in AISI 303 stainless steel for corrosion-resistant applications, as an alternative to the UltraFlo versions.

Advantages
Coupling system with single-hand operation and standard-valve. Small mass size. The ergonomic sleeve design prevents dirt on the valve body.

Working Temperature
-20°C up to +100°C (NBR)
-15°C up to +200°C (FKM)
depending on the medium.

Special seals are available on request.

Max. Working Pressure*
35 bar
maximum static working pressure
with safety factor 4 to 1.

Material
Coupling: Brass nickel plated or Stainless Steel
Plug: Brass nickel plated or Stainless Steel
Seals: NBR or FKM

Applications
• Plumbing / Water Treatment
   • Double Shut-Off
   • Single Shut-Off

Flow diagrams

Air

[Diagram showing flow rate in l/min against pressure drop in bar]

Water

[Diagram showing flow rate in l/min against pressure drop in bar]

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[Diagram showing flow rate in l/min against pressure drop in bar]

Water

[Diagram showing flow rate in l/min against pressure drop in bar]
### Plugs – without valve

**Series 26KA**

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### Plugs – with valve

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<td>11</td>
<td>Brass plated</td>
<td>26SAD16MKXN</td>
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<tr>
<td>M 18 x 1,5</td>
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**Series 26KB**

<table>
<thead>
<tr>
<th>Connection A</th>
<th>HEX mm</th>
<th>L mm</th>
<th>L1 mm</th>
<th>D mm</th>
<th>Version</th>
<th>Seal</th>
<th>Part Number</th>
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</thead>
<tbody>
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### Couplings – with valve

**Series 26KA**

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<th>L1 mm</th>
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<th>Part Number</th>
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<tbody>
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<td>G 3/8</td>
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**Series 26KB**

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<th>L1 mm</th>
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<th>Seal</th>
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<tbody>
<tr>
<td>M 14 x 1,5</td>
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<td>44</td>
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<td>M 18 x 1,5</td>
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<td>43</td>
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### Couplings – with valve

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<tbody>
<tr>
<td>M 14 x 1,5</td>
<td>22</td>
<td>44</td>
<td>10</td>
<td>Brass plated</td>
<td>26KBAW10MPN</td>
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</tr>
<tr>
<td>M 16 x 1,5</td>
<td>22</td>
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<td>Brass plated</td>
<td>26KBAW16MPN</td>
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<td>M 18 x 1,5</td>
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<td>43</td>
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<td>Brass plated</td>
<td>26KBAW18MPN</td>
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**Series 26KB**

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<th>Connection A</th>
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<td>9</td>
<td>Brass plated</td>
<td>26KBAW18MPN</td>
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</tbody>
</table>
Technical Description
Swivelling double nipple with a very robust low-temperature polyurethane seal to guarantee a long service life.

Advantages
By this swivelling double nipple, the hoses are not conformed or twisted - this means that the hoses have a longer service life.

Max. Working Pressure
12 bar

Material
Double nipple: Steel zinc plated
Seals: EPDM and Cryogenic-PU

Applications
• Pneumatic Braking Systems
• Pneumatic Applications

Working Temperature
-50°C up to +120°C (EPDM) depending on the medium.
Special seals are available on request.

Swivelling double nipple Series DN

<table>
<thead>
<tr>
<th>Size</th>
<th>Connection A1</th>
<th>Connection A2</th>
<th>HEX1 mm</th>
<th>HEX2 mm</th>
<th>L mm</th>
<th>L1 mm</th>
<th>L2 mm</th>
<th>D mm</th>
<th>D1 mm</th>
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<td>9</td>
<td>12</td>
<td>5</td>
<td>DN17/16S2S</td>
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<tr>
<td>L18</td>
<td>M26x1,5</td>
<td>G 1/2</td>
<td>30</td>
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<td>12</td>
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</table>

Left side: ISO 228 with O-ring on the front
Right side: ISO 8434-1 series L external thread

<table>
<thead>
<tr>
<th>Size</th>
<th>Connection A1</th>
<th>Connection A2</th>
<th>HEX1 mm</th>
<th>HEX2 mm</th>
<th>L mm</th>
<th>L1 mm</th>
<th>L2 mm</th>
<th>D mm</th>
<th>D1 mm</th>
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</tr>
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<tbody>
<tr>
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<td>M16x1,5</td>
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<td>19</td>
<td>55,5</td>
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<td>10</td>
<td>5</td>
<td>DN16/16S2S</td>
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<tr>
<td>L18</td>
<td>M26x1,5</td>
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<td>12</td>
<td>18</td>
<td>12,5</td>
<td>DN26/26S2S</td>
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<td>L22</td>
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<td>M30x2</td>
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<td>36</td>
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<td>16</td>
<td>DN30/30S2S</td>
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</tr>
</tbody>
</table>

Left side: ISO 4341 series L with O-ring and nut
Right side: ISO 4341 series L external thread

Please consider our security advices in our main catalogues.