Universal Push to Connect
The Parker Push-in System
Push-fitting instead of screw fitting in series production:
The only push-in system for steel tubes and hoses
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Universal Push to Connect (UPTC)

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UPTC advantages
Parker Universal Push to Connect

Parker Universal Push to Connect is a soft-sealing push-in system for steel hydraulic tubes and hydraulic hoses. UPTC is free of clearance and leakage. UPTC offers you unique advantages in your series production.

- Time savings with push-fitting instead of screw fitting (up to 50%)
- Simple push-in in confined spaces without tools
- Low push-in force in the assembly (approx. 60N at 15L)
- No special tools are required to loosen the connection
- Permanent visual control results of the connection
- Easily loosen, even with heavy contamination
- Can be combined with all 24° DIN EO screw fittings
- New product: Patented pressure locking system
- Push-in connection (pressure lock)
- New product: Patented wear prevention
- For many industries and many applications
The UPTC system with components
Parker Universal Push to Connect

Any ISO 8434 hydraulic line can be easily converted into an UPC push-in system by using the system nut.
UPTC branch applications
Wherever a screw fitting would be difficult to handle

Universal Push to Connect is suitable for many applications. For use in series production from small to large series.

Trucks

Tooling machines

Agricultural machinery

Wind power

Materials handling technology

Construction machinery
Universal Push to Connect is suitable for many applications. Application range from cooling to steering.
UPTC is a reliable system
Over 10 years experience in push-in systems

- Idea and patent application: 2006
- Field testing phase: 2007
- Development to series approval: 2008
Reliable system

Series use of further development

Patent application for further development

Start of series use

2009

2015

2018
UPTC assembly states
Here’s how easy it can be with Parker

Assemble your connections by using UPTC: simple, fast and safe

Before assembled connection

Connection assembled

Connection disassembled

Push-in force approx. 60N = 6.0 kg at 15L

If the red ring is not visible, the connection is fitted correctly!
UPTC exchange in the field
Simple and uncomplicated

Avoid downtimes! The UPTC push-in system is removable at the UPTC system nut with a common wrench. The standardized DIN ISO interface is free and ready for the commonly exchange.

For tubes and hoses

Any ISO 8434 hydraulic line can be easily converted into an UPC push-in system, by using the UPTC system nut.
The UPTC technology in detail
Overview of all components

Patented UPTC connection technology (before assembly)

The UPTC Double Lock technology
We make push-in connections safer (after assembly)

The UPTC Double Lock consists of the First Lock (circlip retaining ring against tear-out) and the Pressure-Lock (clearance and wear-free pressure lock). After the connector (1) is inserted into the system nut (2), the stainless steel ring (3) snaps into place and forms a solid connection. The yellow seal (4) is a soft sealing to the connector (1) to offer an optimal sealing without leakage. The black clamping ring (5) locks the connection without clearance or wear under system pressure (pressure locking). The red dust seal (6) also serves as a visual assembly indicator.

If the red ring is not visible, the connection is fitted correctly!
The UPTC technology in detail
The push-in fitting for hoses and steel tubes

UPTC for steel tubes and hose lines

With UPTC, you are always free and flexible in the range of Parker DIN fittings.
UPTC technology in detail
Pre-assembled UPTC – an unbeatable advantage

Did you know? Order pre-assembled UPTC connections from Parker! Easily assembling in confined spaces by using a standard socket!

The pre-assembled UPTC screw fitting offers a higher torque than the screw fitting requires for the final screwing. This makes it easy for you to reach mounting points quick and safe.

More production
In your production, UPTC means: More clock cycles thanks to simple push-fitting and improved reliability! „Faster assembly – with no risk!“ thanks to patented Parker technology.

Simplicity and speed matters!
UPTC technology in detail

Performance data

- Material: Steel
- Retaining ring: Stainless steel
- Seal material: HNBR (hydrogenated nitrile butadiene rubber)
- Ambient temperature: -40 °C to 150 °C
- Media compatibility: Hydraulic oil, diesel, air, etc.
- Surface: CF Cr(VI)-free, galvanized (steel)

Performance data

<table>
<thead>
<tr>
<th>DN max. INCH [Hose]</th>
<th>-3</th>
<th>-4</th>
<th>-5</th>
<th>-6</th>
<th>-8</th>
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<tr>
<td>UPTC Size [DIN]</td>
<td>6L*</td>
<td>6S*</td>
<td>8L</td>
<td>10L*</td>
<td>12L</td>
<td>15L</td>
<td>18L</td>
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<tr>
<td>PN [bar] dynamic and static</td>
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</table>

*Available upon request

- Repeat assembly in accordance with DIN EN ISO 19879
- Leak testing in accordance with DIN EN ISO 19879
- Burst pressure testing in accordance with DIN EN ISO 19879
- Pulse testing in accordance with SO 6803
- Vacuum testing in accordance with DIN EN ISO 19879
- Coating testing
- Combined pulse/vibration testing in accordance with DIN EN ISO 19879
- Flex pulse test with hose in accordance with SAE J1405
- Corrosion testing in accordance with ISO 92227
- Dust Box Test (Arizona Road Dust)
- Low temperature testing
- High temperature testing
- Vibration test with extreme load / 20 G, with standardized dust and moisture

Parker and a test institute have developed an a unique long-term extreme test for UPTC compared to other push-in systems. UPTC has successfully completed +500h without any signs of wear and tear.
Technical data
System design

24° screw fitting with Parker Universal Push to Connect – EO connection

<table>
<thead>
<tr>
<th>Type [mm/inch]</th>
<th>D</th>
<th>L</th>
<th>ID</th>
<th>L1</th>
<th>L2</th>
<th>L3</th>
<th>(L4)</th>
<th>L5min</th>
<th>SW/HEX</th>
<th>Max. hose DN [mm/inch]</th>
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<tr>
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<td>5,8</td>
<td>15,5</td>
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<td>10,5</td>
<td>13,5</td>
<td>17,5</td>
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<td>25</td>
<td>14</td>
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<td>10,5</td>
<td>13,5</td>
<td>17,5</td>
<td>4</td>
<td>25</td>
<td>17</td>
<td>4/ ...</td>
</tr>
<tr>
<td>8L / -4</td>
<td>7,8</td>
<td>17,5</td>
<td>5</td>
<td>12</td>
<td>15</td>
<td>19</td>
<td>4</td>
<td>29</td>
<td>17</td>
<td>6/-4</td>
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<tr>
<td>10L/ ... *</td>
<td>9,4</td>
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<td>6,5</td>
<td>12,5</td>
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<td>4</td>
<td>33</td>
<td>19</td>
<td>8/- ...</td>
</tr>
<tr>
<td>12L/ -6</td>
<td>11,8</td>
<td>19</td>
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<td>13,5</td>
<td>16,5</td>
<td>20,5</td>
<td>4</td>
<td>37</td>
<td>22</td>
<td>10/-6</td>
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<tr>
<td>15L/ -8</td>
<td>14,8</td>
<td>21</td>
<td>11</td>
<td>16</td>
<td>18,5</td>
<td>23</td>
<td>4,5</td>
<td>45</td>
<td>27</td>
<td>12/-8</td>
</tr>
<tr>
<td>18L/ -10</td>
<td>17,8</td>
<td>23</td>
<td>13,5</td>
<td>17,5</td>
<td>20</td>
<td>25</td>
<td>5</td>
<td>50</td>
<td>32</td>
<td>16/-10</td>
</tr>
<tr>
<td>22L/ -12</td>
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<td>23</td>
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<td>17,5</td>
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<td>25</td>
<td>5</td>
<td>56</td>
<td>36</td>
<td>20/-12</td>
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<tr>
<td>28L/ -16 *</td>
<td>24,8</td>
<td>24,5</td>
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<td>18,5</td>
<td>21,5</td>
<td>26</td>
<td>4,5</td>
<td>62</td>
<td>41</td>
<td>25/-16</td>
</tr>
</tbody>
</table>

* Available upon request

Installation dimensions upon request.
UPTC order data
Explanation of order references

**GE**
- Type
- Reference for Support form
- Tube ext. diam. in mm

**UELKM**
- UPTC-EO series

**R**
- Seal version
  - ED M/R Elastic seal
  - ISO 6149 O-Ring
  - M/R metal sealing edge
  - UN/UNF O-Ring
  - NPT tapered thread

**ED**
- Thread version and size
  - R pipe thread cylindrical
  - M metric thread cylindrical

**CF**
- Material surface
  - Galvanized Cr(VI)-free

Example: UPTC screw fitting-GE15UELKMREDCF
Example: UPTC screw fitting EW15UELKMCF

<table>
<thead>
<tr>
<th>Pipe AD (mm)</th>
<th>Screw-in plugs</th>
<th>PN</th>
<th>Order no.</th>
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<tbody>
<tr>
<td>DIN 6&quot;</td>
<td>M10 x 1</td>
<td>400</td>
<td>GE06UELKMMEDCF</td>
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<tr>
<td>DIN 8</td>
<td>M12 x 1,5</td>
<td>400</td>
<td>GE08UELKMMEDCF</td>
</tr>
<tr>
<td>DIN 10&quot;</td>
<td>M14 x 1,5</td>
<td>350</td>
<td>GE10UELKMMEDCF</td>
</tr>
<tr>
<td>DIN 12</td>
<td>M16 x 1,5</td>
<td>350</td>
<td>GE12UELKMMEDCF</td>
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<tr>
<td>DIN 15</td>
<td>M18 x 1,5</td>
<td>295</td>
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<td>DIN 18</td>
<td>M22 x 1,5</td>
<td>280</td>
<td>GE18UELKMMEDCF</td>
</tr>
<tr>
<td>DIN 22</td>
<td>M26 x 1,5</td>
<td>215</td>
<td>GE22UELKMMEDCF</td>
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<tr>
<td>DIN 28&quot;</td>
<td>M33 x 2</td>
<td>215</td>
<td>GE28UELKMMEDCF</td>
</tr>
</tbody>
</table>

*O-Lok available upon request

UPTC provides a wide range of applications thanks to the DIN compatibility with 24° screw fittings.
# UPTC Order Data

Hose nipple, hydraulic hose, Elastomer (rubber)

## EN - UPTC Straight

<table>
<thead>
<tr>
<th>Order no.</th>
<th>Hose ID</th>
<th>Pipe AD</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>1EN46-8-4</td>
<td>1EN48-8-4</td>
<td>6</td>
<td>1/4</td>
<td>4</td>
</tr>
<tr>
<td>1EN46-10-5 *</td>
<td>1EN48-10-5 *</td>
<td>8</td>
<td>5/16</td>
<td>-5</td>
</tr>
<tr>
<td>1EN46-12-6</td>
<td>1EN48-12-6</td>
<td>10</td>
<td>3/8</td>
<td>-6</td>
</tr>
<tr>
<td>1EN46-15-8</td>
<td>1EN48-15-8</td>
<td>12</td>
<td>1/2</td>
<td>-8</td>
</tr>
<tr>
<td>1EN46-18-10</td>
<td>1EN48-18-10</td>
<td>16</td>
<td>5/8</td>
<td>-10</td>
</tr>
<tr>
<td>1EN46-22-12</td>
<td>1EN48-22-12</td>
<td>20</td>
<td>3/4</td>
<td>-12</td>
</tr>
<tr>
<td>1EN48-28-16 *</td>
<td>1EN48-28-16 *</td>
<td>25</td>
<td>1</td>
<td>-16</td>
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</table>

## EU - UPTC 45° Elbow

<table>
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<th>Hose ID</th>
<th>Pipe AD</th>
<th>A</th>
<th>B</th>
<th>E</th>
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<tbody>
<tr>
<td>1EU46-8-4</td>
<td>1EU48-8-4</td>
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<td>1/4</td>
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<tr>
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<td>1EU48-10-5 *</td>
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<td>5/16</td>
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<td>1EU48-12-6</td>
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<td>1EU46-15-8</td>
<td>1EU48-15-8</td>
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<td>-8</td>
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<td>5/8</td>
<td>-10</td>
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<td>1EU48-22-12</td>
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<td>-12</td>
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<td>-16</td>
<td>25.4</td>
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</table>

## ET - UPTC 90° Elbow

<table>
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<th>Hose ID</th>
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<th>B</th>
<th>E</th>
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</thead>
<tbody>
<tr>
<td>1ET46-8-4</td>
<td>1ET48-8-4</td>
<td>6</td>
<td>1/4</td>
<td>-4</td>
<td>6.3</td>
</tr>
<tr>
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<td>1ET48-10-5 *</td>
<td>8</td>
<td>5/16</td>
<td>-5</td>
<td>7.9</td>
</tr>
<tr>
<td>1ET46-12-6</td>
<td>1ET48-12-6</td>
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<td>3/8</td>
<td>-6</td>
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<td>1ET46-15-8</td>
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<td>1/2</td>
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<td>3/4</td>
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<td>1ET48-28-16 *</td>
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<td>1</td>
<td>-16</td>
<td>25.4</td>
</tr>
</tbody>
</table>

Suitable for many fittings and hose types.

*Available upon request. For details see CAT 4400
### UPTC order data

**Hose nipple, Thermoplast hose**

#### EN

##### UPTC straight

<table>
<thead>
<tr>
<th>XXXX-XX-XX</th>
<th>Order no.</th>
<th>DN</th>
<th>Size</th>
<th>mm</th>
<th>Zoll</th>
<th>Pipe AD</th>
<th>mm</th>
<th>A</th>
<th>mm</th>
<th>B</th>
<th>mm</th>
<th>WP</th>
<th>Max.</th>
<th>MPa</th>
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<tbody>
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#### EU

##### UPTC 45° elbow

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<th>mm</th>
<th>B</th>
<th>mm</th>
<th>E</th>
<th>mm</th>
<th>Max.</th>
<th>WP</th>
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##### UPTC 90° elbow

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**Suitable for many fittings and hose types.**

*Available upon request. For details see CAT 4400
Maintenance – Repair

Easy disassembly in the field
During disassembly, the system nut will be removed from the screw socket. The male end and UPTC system nut remain as a single unit.
• Remove and install like common screw fitting connections. Also works under heavy contamination.
• No specialized tools are required.

1. Ideally, the system will be undamaged. The system nut sits on the nipple. Release the system nut. You can continue to use the system again.
2. To exchange the hose, for instance, exchange the system nut, the hose and the fitting (all components except for the socket).
3. If a repair is needed, the entire Parker DKO system can also be inserted.

Tube connection repairs
Repairs are easy to handle:
• The plug connection can easily be exchanged for standardized series components. Tubes are repaired by mounting progressive rings (PSR) or EO-2 functional nuts, for instance, with a new tube
• The UPTC connection system is maintenance-free. During normal line inspections, the Parker push-in connections should be visually inspected.

Repeat assembly
• To disassemble the push-in connection, unscrew the UPTC system nut by using a common wrench.
• Before re-assembling the connection, ensure the spacer ring is installed and the O-rings and support ring are not damaged. Complete assembly like DKO assembly with the same torques.
UPTC – Summary
Wherever a screw fitting would be difficult to handle

UPTC – A champion for series production! With UPTC, you have a high-performing push-in system for many different applications from small to large series.

If the red ring is not visible, the connection is fitted correctly!

Advantages
- Cost savings thanks to push-in connections instead of screw fitting
- Soft sealing push-in connection system for steel tubes and hoses
- Standardized ISO 8434 interface / flexible design
- Free of clearance and leakage in the connection

Applications
- Commercial vehicles
- Agricultural, construction and mining equipment
- Use in hydraulic systems, cooling systems
- Braking systems, tilt hydraulic systems
- Wind power

Assembly
- Excellent time savings thanks to tool-free push-in connections
- Immediate and ongoing ability to inspect the connection
- Very user-friendly / pre-assembled UPTC fittings
- No specialized tools required to release the connection
- Suitable for installation in confined spaces

Technology
- Patented pressure-locking push-in connection without any clearance
- Steel design, with soft sealing connection
- Connection side always 24° ISO 8434
- Up to 400 bar PN, suitable for the following media: Hydraulic oil, diesel, air

More production. Simple, fast and secure.
Parker offers you a reliable worldwide solution for your series production. Easily switch to UPTC thanks to standardized mounting points!

We are happy to answer any questions you may have.

This video illustrates the function of the UPTC

Video
UPTC work preparation
Check for leaks before installing

The UPTC test adapter for series work preparation
For hose lines with a UPTC system nut

Testing adapter for the plug CAP15UEL (for 15L)

Female thread G1/4 for the pressure connection

The hose can be removed by unscrewing the testing adapter.

For hose lines with a UPTC system nut

Plug without locking groove

Pressure connection

Hose with UPTC system nut

Bracket

Testing adapter for the UPTC system nut PLUG15ENLKM (for 15L)

Female thread G1/4 for the pressure connection

Hose with UPTC system nut inserted into testing adapter. Can be removed after removing the bracket.
Customer-specific special solutions

**UPTC-Cartridge**: Our innovation for confined space installation areas or customer-specific solutions. System nut and stud are combined in a single component, eliminating concerns about installation height. Custom thread connections or other customer-specific requirements can also be combined in this system.

Size comparison

Thanks to smaller wrench sizes, less installation space is required. Customer-specific solution not based on DIN or SAE studs. **Order reference upon request.**

Additional tools for testing purposes

**CAP**: CAP: Tool to connect the UPTC plug with a test bench and release the connection once again.

Order number: CAP15UEL

**PLUG**: PLUG: Tool to connect the UPTC system nut with a test bench and release the connection once again.

Order number: PLUG15ENLKM

Applications:
- Checking pre-assembled components for leaks
- For test runs of complete UPTC push-in connections (valves, motors, etc.)
- Connect to flushing system to be able to clean/flush the lines accordingly
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