



# rtc<sup>®</sup>

COUPLING TECHNOLOGY  
[www.rtc-tec.com](http://www.rtc-tec.com)



## 020

rtc TYPE



DN 2.7 mm Pneumatic and Water Coupling

TYPE 020



**Compatible**

Rectus 20KA, 20KB(Double Shut-off), 91  
Walther 06-003

**Temperature Range**

|                           |                                |
|---------------------------|--------------------------------|
| Nitrile (N)               | -20°C + 100°C (- 4°F + 212°F)  |
| FPM (V)                   | -20°C + 180°C (- 4°F + 356°F)  |
| EPDM (Ethylene Propylene) | -40°C + 150°C (- 40°F + 302°F) |

**Working Pressure**

35 Bar (510 PSI)

**Flow size**

rtc type 020      2.7 mm (1/8")

**Standard version**

Seals - Dichtung : Nitrile (N)

**Material of Standard Coupler**

|                           |   |
|---------------------------|---|
| Socket body               | Brass nickel plated -<br>Messing vernickelt |
| Kupplungsgrundkörper      |   |
| Sleeve                    | Brass nickel plated -<br>Messing vernickelt |
| Hülse                     |   |
| Springs - Federn          | Stainless Steel - Edelstahl                 |
| Locking Ring - Sprengring | Stainless Steel - Edelstahl                 |
| Balls - Kugeln            | Stainless Steel - Edelstahl                 |

Plug -  
Nippel

Brass nickel plated  
Messing vernickelt

**Using Area**

Mini coupling for industrial pneumatic, gas and water applications with a remarkable high rate of flow.

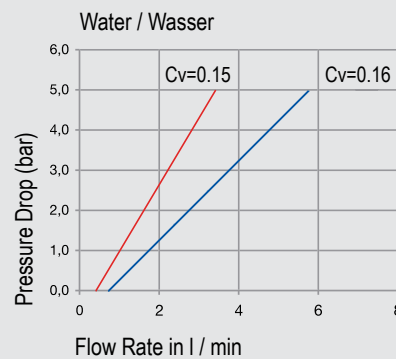
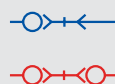
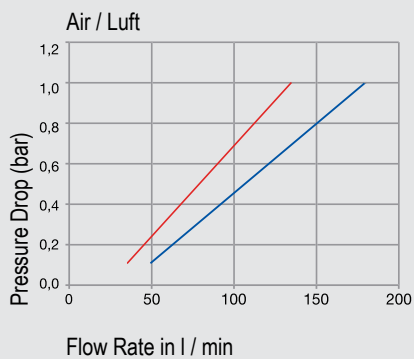
Widely used in medical industry. It can also be used in chemistry/pharmacy.

**Technical Specifications & Advantages**

- Advantage of one hand useage.
- Ideal to use in small areas.
- Minimised pressure loss
- Anti-corrosive



Flow Rate vs Pressure Drop Graph



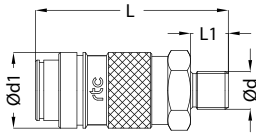
020  
rtc TYPE

rtc TYPE 020

Male thread socket / Kupplung mit Aussengewinde



Sockets / Kupplungen



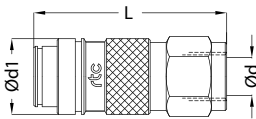
| Size / Größe | Order No / Bestellnr. | Order No / Bestellnr. | Order No / Bestellnr. | Ød      | Ød1 | L  | L1 | HEX. |
|--------------|-----------------------|-----------------------|-----------------------|---------|-----|----|----|------|
| 2.7          | 020 SMB 0508          | 020 SMO 0508          | 020 SMF 0508          | M5x0.8  | 10  | 26 | 5  | 9    |
| 2.7          | 020 SMB 10            | 020 SMO 10            | 020 SMF 10            | BSP 1/8 | 10  | 28 | 7  | 11   |

rtc TYPE 020

Female thread socket / Kupplung mit Innengewinde



Sockets / Kupplungen



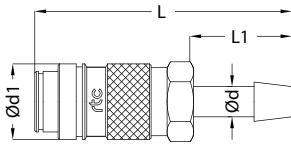
| Size / Größe | Order No / Bestellnr. | Order No / Bestellnr. | Order No / Bestellnr. | Ød      | Ød1 | L  | HEX. |
|--------------|-----------------------|-----------------------|-----------------------|---------|-----|----|------|
| 2.7          | 020 SFB 0508          | 020 SFO 0508          | 020 SFF 0508          | M5x0.8  | 10  | 26 | 9    |
| 2.7          | 020 SFB 10            | 020 SFO 10            | 020 SFF 10            | BSP 1/8 | 10  | 28 | 12   |

rtc TYPE 020

Standard hose tail socket / Kupplung mit gerader Standard - Schlauchtülle



Sockets / Kupplungen



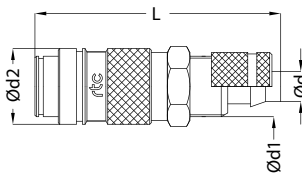
| Size / Größe | Order No / Bestellnr. | Order No / Bestellnr. | Order No / Bestellnr. | Ød   | Ød1 | L  | L1 |
|--------------|-----------------------|-----------------------|-----------------------|------|-----|----|----|
| 2.7          | 020 SHB 03            | 020 SHO 03            | 020 SHF 03            | 3 mm | 10  | 35 | 13 |
| 2.7          | 020 SHB 04            | 020 SHO 04            | 020 SHF 04            | 4 mm | 10  | 35 | 13 |
| 2.7          | 020 SHB 05            | 020 SHO 05            | 020 SHF 05            | 5 mm | 10  | 34 | 13 |

rtc TYPE 020

Plastic Hose Connection / Kunststoffschlauch



Sockets / Kupplungen



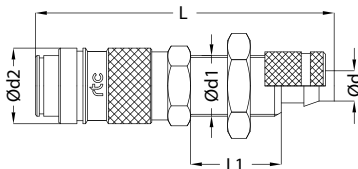
| Size / Größe | Order No / Bestellnr. | Order No / Bestellnr. | Order No / Bestellnr. | Ød     | Ød1    | Ød2 | L  |
|--------------|-----------------------|-----------------------|-----------------------|--------|--------|-----|----|
| 2.7          | 020 SVB 0304          | 020 SVO 0304          | 020 SVF 0304          | 3x4 mm | M7x0.5 | 10  | 33 |
| 2.7          | 020 SVB 0305          | 020 SVO 0305          | 020 SVF 0305          | 3x5 mm | M7x0.5 | 10  | 33 |
| 2.7          | 020 SVB 0406          | 020 SVO 0406          | 020 SVF 0406          | 4x6 mm | M8x0.5 | 10  | 33 |

rtc TYPE 020

Panel Mount Plastic Hose Connection / Schottverschraubung für Kunststoffschlauch



Sockets / Kupplungen



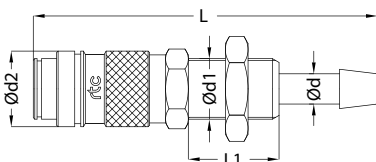
| Size / Größe | Order No / Bestellnr. | Order No / Bestellnr. | Order No / Bestellnr. | Ød  | Ød1    | Ød2 | L  | L1 | HEX. |
|--------------|-----------------------|-----------------------|-----------------------|-----|--------|-----|----|----|------|
| 2.7          | 020 SVBP 0304         | 020 SVOP 0304         | 020 SVOP 0304         | 3x4 | M7x0.5 | 10  | 40 | 12 | 11   |
| 2.7          | 020 SVBP 0305         | 020 SVOP 0305         | 020 SVOP 0305         | 3x5 | M7x0.5 | 10  | 40 | 12 | 11   |
| 2.7          | 020 SVBP 0406         | 020 SVOP 0406         | 020 SVOP 0406         | 4x6 | M8x0.5 | 10  | 40 | 12 | 12   |

rtc TYPE 020

Panel Mount Hose Barb / Schottverschraubung für Schlauchanschluss



Sockets / Kupplungen



| Size / Größe | Order No / Bestellnr. | Order No / Bestellnr. | Order No / Bestellnr. | Ød | Ød1    | Ød2 | L  | L1 | HEX. |
|--------------|-----------------------|-----------------------|-----------------------|----|--------|-----|----|----|------|
| 2.7          | 020 SHBP 03           | 020 SHOP 03           | 020 SHFP 03           | 3  | M7x0.5 | 10  | 44 | 13 | 11   |
| 2.7          | 020 SHBP 04           | 020 SHOP 04           | 020 SHFP 04           | 4  | M7x0.5 | 10  | 44 | 13 | 11   |
| 2.7          | 020 SHBP 06           | 020 SHOP 06           | 020 SHFP 06           | 6  | M10x1  | 10  | 44 | 13 | 12   |

Male thread plug / Nippel mit Aussengewinde TYPE 020

| Plugs / Nippel | Size / Größe | Order No / Bestellnr.<br>Without valve / ohne Ventil | Ød      | Ød1 | L  | L1 | HEX. |
|----------------|--------------|--|---------|-----|----|----|------|
|                | 2.7          | 020 PMF 0508   | M5x0.8  | 5   | 18 | 5  | 7    |
|                | 2.7          | 020 PMF 10   | BSP 1/8 | 5   | 20 | 7  | 11   |

Female thread plug / Nippel mit Innengewinde TYPE 020

| Plugs / Nippel | Size / Größe | Order No / Bestellnr.<br>Without valve / ohne Ventil | Ød      | Ød1 | L  | HEX. |
|----------------|--------------|--|---------|-----|----|------|
|                | 2.7          | 020 PFF 0508   | M5x0.8  | 5   | 17 | 7    |
|                | 2.7          | 020 PFF 10   | BSP 1/8 | 5   | 19 | 12   |

Standard hose tail plug / Nippel mit gerader Standard - Schlauchtülle TYPE 020

| Plugs / Nippel | Size / Größe | Order No / Bestellnr.<br>Without valve / ohne Ventil | Ød   | Ød1 | L  | L1 |
|----------------|--------------|--|------|-----|----|----|
|                | 2.7          | 020 PHF 03   | 3 mm | 5   | 24 | 13 |
|                | 2.7          | 020 PHF 04   | 4 mm | 5   | 24 | 13 |
|                | 2.7          | 020 PHF 05   | 5 mm | 5   | 22 | 13 |

Plastic Hose Connection / Kunststoffschlauch TYPE 020

| Plugs / Nippel | Size / Größe | Order No / Bestellnr.<br>Without valve / ohne Ventil | Ød     | Ød1    | Ød2 | L  | L1 | HEX. |
|----------------|--------------|--|--------|--------|-----|----|----|------|
|                | 2.7          | 020 PVF 0304   | 3x4 mm | M7x0.5 | 5   | 25 | 5  | 7    |
|                | 2.7          | 020 PVF 0305   | 3x5 mm | M7x0.5 | 5   | 25 | 5  | 7    |
|                | 2.7          | 020 PVF 0406   | 4x6 mm | M8x0.5 | 5   | 25 | 5  | 8    |

Panel Mount Plastic Hose Connection / Schottverschraubung für Kunststoffschlauch TYPE 020

| Plugs / Nippel | Size / Größe | Order No / Bestellnr.<br>Without valve / ohne Ventil | Ød     | Ød1    | Ød2 | L  | L1 | HEX. |
|----------------|--------------|--|--------|--------|-----|----|----|------|
|                | 2.7          | 020 PVFP 0304  | 3x4 mm | M7x0.5 | 5   | 32 | 12 | 11   |
|                | 2.7          | 020 PVFP 0305  | 3x5 mm | M7x0.5 | 5   | 32 | 12 | 11   |
|                | 2.7          | 020 PVFP 0406  | 4x6 mm | M8x0.5 | 5   | 32 | 12 | 12   |

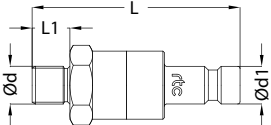
Panel Mount Hose Barb / Schottverschraubung für Schlauchanschluss TYPE 020

| Plugs / Nippel | Size / Größe | Order No / Bestellnr.<br>Without valve / ohne Ventil | Ød   | Ød1    | Ød2 | L  | L1 | HEX. |
|----------------|--------------|--|------|--------|-----|----|----|------|
|                | 2.7          | 020 PHFP 03  | 3 mm | M7x0.5 | 5   | 36 | 10 | 11   |
|                | 2.7          | 020 PHFP 04  | 4 mm | M7x0.5 | 5   | 36 | 10 | 11   |
|                | 2.7          | 020 PHFP 06  | 6 mm | M10x1  | 5   | 36 | 10 | 12   |

rtc TYPE 020

Male thread plug with valve / Nippel mit Aussengewinde mit Ventil

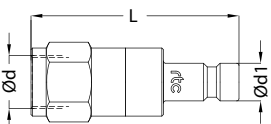


| Plugs / Nippel  | Size / Größe | Order No / Bestellnr.<br>With valve / mit Ventil | Ød      | Ød1 | L    | L1 | HEX. |
|---|--------------|--|---------|-----|------|----|------|
|  | 2.7          | 020 PMB 0508                                     | M5x0.8  | 5   | 27.5 | 5  | 9    |
|   | 2.7          | 020 PMB 10                                       | BSP 1/8 | 5   | 29.5 | 7  | 11   |

rtc TYPE 020

Female thread plug with valve / Nippel mit Innengewinde mit Ventil

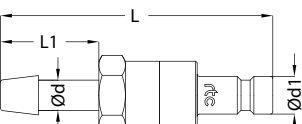


| Plugs / Nippel  | Size / Größe | Order No / Bestellnr.<br>With valve / mit Ventil | Ød      | Ød1 | L    | HEX. |
|---|--------------|--|---------|-----|------|------|
|  | 2.7          | 020 PFB 0508                                     | M5x0.8  | 5   | 27.5 | 9    |
|   | 2.7          | 020 PFB 10                                       | BSP 1/8 | 5   | 30   | 12   |

rtc TYPE 020

Standard hose tail plug with valve / Nippel mit gerader Standard - Schlauchtülle mit Ventil

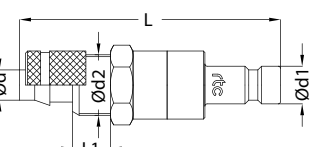


| Plugs / Nippel   | Size / Größe | Order No / Bestellnr.<br>With valve / mit Ventil | Ød   | Ød1 | L  | L1 |
|--|--------------|--|------|-----|----|----|
|  | 2.7          | 020 PHB 03                                       | 3 mm | 5   | 36 | 13 |
|  | 2.7          | 020 PHB 04                                       | 4 mm | 5   | 36 | 13 |
|  | 2.7          | 020 PHB 05                                       | 5 mm | 5   | 36 | 13 |

rtc TYPE 020

Plastic Hose Connection / Kunststoffschlauch

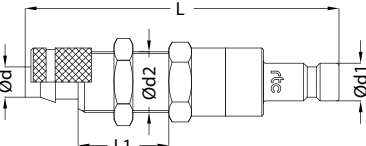


| Plugs / Nippel  | Size / Größe | Order No / Bestellnr.<br>With valve / mit Ventil | Ød     | Ød1    | Ød2 | L  | L1 | HEX. |
|---|--------------|--|--------|--------|-----|----|----|------|
|  | 2.7          | 020 PVB 0304                                     | 3x4 mm | M7x0.5 | 5   | 35 | 5  | 9    |
|   | 2.7          | 020 PVB 0305                                     | 3x5 mm | M7x0.5 | 5   | 35 | 5  | 9    |
|   | 2.7          | 020 PVB 0406                                     | 4x6 mm | M8x0.5 | 5   | 35 | 5  | 9    |

rtc TYPE 020

Panel Mount Plastic Hose Connection / Schottverschraubung für Kunststoffschlauch

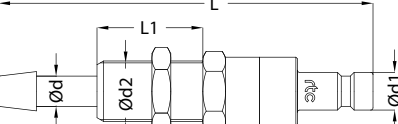


| Plugs / Nippel  | Size / Größe | Order No / Bestellnr.<br>With valve / mit Ventil | Ød     | Ød1    | Ød2 | L  | L1 | HEX. |
|---|--------------|--|--------|--------|-----|----|----|------|
|  | 2.7          | 020 PVBP 0304                                    | 3x4 mm | M7x0.5 | 5   | 42 | 12 | 11   |
|   | 2.7          | 020 PVBP 0305                                    | 3x5 mm | M7x0.5 | 5   | 42 | 12 | 11   |
|   | 2.7          | 020 PVBP 0406                                    | 4x6 mm | M8x0.5 | 5   | 42 | 12 | 12   |

rtc TYPE 020

Panel Mount Hose Barb / Schottverschraubung für Schlauchanschluss



| Plugs / Nippel   | Size / Größe | Order No / Bestellnr.<br>With valve / mit Ventil | Ød   | Ød1    | Ød2 | L  | L1 | HEX. |
|--|--------------|--|------|--------|-----|----|----|------|
|  | 2.7          | 020 PHBP 03                                      | 3 mm | M7x0.5 | 5   | 46 | 10 | 11   |
|  | 2.7          | 020 PHBP 04                                      | 4 mm | M7x0.5 | 5   | 46 | 10 | 11   |
|  | 2.7          | 020 PHBP 06                                      | 6 mm | M10x1  | 5   | 46 | 10 | 12   |