



# rtc<sup>®</sup>

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

-  Water
-  Pneumatic
-  Hydraulic
-  Electrical
-  Accessories

# 105

rtc TYPE



## 105 Type Couplings are leak tight on connection and disconnection



### Temperature Range - Temperaturbereich

|             |                               |
|-------------|-------------------------------|
| Nitrile (N) | -20°C + 100°C (-4°F + 212°F)  |
| FPM (V)     | -20°C + 180°C (-4°F + 356°F)  |
| EPDM (E)    | -40°C + 150°C (-40°F + 302°F) |
| FFKM (W)    | 0°C +270°C (+23°F +518°F)     |

### Max. Working Pressure - Max. Betriebsdruck

|            |                  |
|------------|------------------|
| rtc 105.09 | 16 bar (232 PSI) |
| rtc 105.12 | 16 bar (232 PSI) |
| rtc 105.16 | 16 bar (232 PSI) |
| rtc 105.20 | 16 bar (232 PSI) |
| rtc 105.25 | 16 bar (232 PSI) |

### Flow size - Nennweiten

|            |       |
|------------|-------|
| rtc 105.09 | 9 mm  |
| rtc 105.12 | 12 mm |
| rtc 105.16 | 16 mm |
| rtc 105.20 | 20 mm |
| rtc 105.25 | 25 mm |

### Material

|                                      |  |
|--------------------------------------|--|
| Socket Body-<br>Kupplungsgrundkörper | Brass -<br>Messing   |
| Sleeve - Hülse                       | AISI 420 Chromium plated   |
| Valve - Ventil                       | Brass - Messing  |
| Springs - Federn                     | Stainless Steel - Edelstahl  |
| Seals - Dichtungen                   | FPM (V)  |
| Plug - Nippel                        | 105.09 / 105.12 Brass - Messing<br>105.16 / 105.20 / 105.25<br>Stainless Steel - Edelstahl Messing |

### Standard version - Standardversion

Brass - Messing  
FPM (V)

### Options - Optionen

Stainless Steel - Edelstahl  
EPDM Seal - EPDM Dichtung  
FFKM Seal - FFKM Dichtung  
Colour coding - Farbkodierung

### Colour Ring

For color coding add **R** (red) or **B** (blue) on the end of the order number

### Farbring

Für die Farbkodierung fügen Sie **R** (Rot) oder **B** (Blau) am Ende der Bestellnummer hinzu

### Using Area

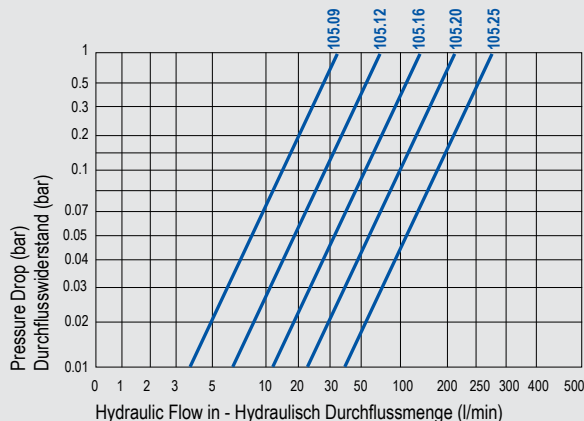
- On temperature regulation applications with hot or cold water, oil etc
- Injection moulding industries
- On steam line

### Anwendungsbereiche

- Werkzeugtemperierung
- Kühlung mit Öl oder Wasser
- Kunststoffindustrie
- Dampfanwendungen



Flow Rate vs Pressure Drop Graph / Durchflussrate vs Druckabfall



Fluid speed 5 m/s (Double shut-off / Beidseitig asperrend)  
Direction of flow socket to plug - Durchflussrichtung Kupplung zu Nippel

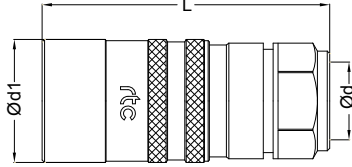
**105**  
rtc TYPE

**rtc** TYPE 105

Female thread socket with valve / Verschlusskupplung mit Innengewinde



Socket / Kupplung



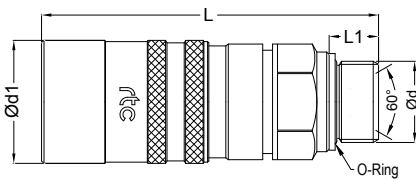
| Size Größe | Order No / Bestellnr. | Ød        | Ød1 | L   | HEX. |
|------------|-----------------------|-----------|-----|-----|------|
| 09         | 105.09 SFB 17         | BSP 3/8   | 25  | 67  | 23   |
| 09         | 105.09 SNB 17         | NPT 3/8   | 25  | 65  | 23   |
| 12         | 105.12 SFB 21         | BSP 1/2   | 31  | 80  | 30   |
| 12         | 105.12 SNB 21         | NPT 1/2   | 31  | 79  | 30   |
| 16         | 105.16 SFB 26         | BSP 3/4   | 38  | 99  | 36   |
| 16         | 105.16 SNB 26         | NPT 3/4   | 38  | 100 | 36   |
| 20         | 105.20 SFB 26         | BSP 3/4   | 50  | 117 | 42   |
| 20         | 105.20 SFB 33         | BSP 1     | 50  | 117 | 42   |
| 20         | 105.20 SNB 33         | NPT 1     | 50  | 117 | 42   |
| 25         | 105.25 SFB 33         | BSP 1     | 55  | 137 | 50   |
| 25         | 105.25 SFB 42         | BSP 1-1/4 | 55  | 137 | 50   |
| 25         | 105.25 SNB 42         | NPT 1-1/4 | 55  | 134 | 50   |

**rtc** TYPE 105

Male thread socket with 60° sealing cone / Kupplung mit Aussengewinde 60° Dichtkonus



Socket / Kupplung



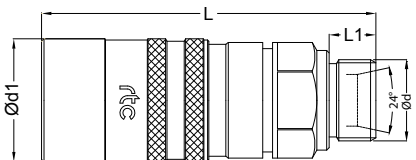
| Size Größe | Order No / Bestellnr. | Ød        | Ød1 | L   | L1 | HEX. |
|------------|-----------------------|-----------|-----|-----|----|------|
| 09         | 105.09 SOB 17         | BSP 3/8   | 25  | 66  | 12 | 23   |
| 12         | 105.12 SOB 21         | BSP 1/2   | 31  | 80  | 14 | 30   |
| 16         | 105.16 SOB 26         | BSP 3/4   | 38  | 100 | 16 | 36   |
| 20         | 105.20 SOB 33         | BSP 1     | 50  | 129 | 20 | 42   |
| 25         | 105.25 SOB 42         | BSP 1-1/4 | 55  | 139 | 21 | 50   |

**rtc** TYPE 105

Male thread socket with 24° sealing cone / Kupplung mit Aussengewinde 24° Dichtkonus



Socket / Kupplung



| Size Größe | Order No / Bestellnr. | Ød          | Ød1 | L   | L1 | HEX. |
|------------|-----------------------|-------------|-----|-----|----|------|
| 09         | 105.09 SMB 1815-12    | M18x1.5-Ø12 | 25  | 65  | 11 | 23   |
| 12         | 105.12 SMB 2515-18    | M26x1.5-Ø18 | 31  | 74  | 12 | 30   |
| 16         | 105.16 SMB 3020-22    | M30x2.0-Ø22 | 38  | 98  | 14 | 36   |
| 20         | 105.20 SMB 3620-28    | M36x2.0-Ø28 | 50  | 123 | 14 | 42   |
| 25         | 105.25 SMB 4520-35    | M45x2.0-Ø35 | 55  | 134 | 16 | 50   |

Male threaded sockets for hydraulic pipes with 24° taper according to ISO 8434-1 (type:L)  
Kupplung mit Aussengewinde mit 24° Dichtkonus (typ:L)



Female thread plug with valve / Verschlussnippel mit Innengewinde

TYPE 105 **rtc**

| Plug / Nippel | Size Größe | Order No / Bestellnr. | Ød      | L  | HEX. |
|---------------|------------|-----------------------|---------|----|------|
|               | 09         | 105.09 PFB 17         | BSP 3/8 | 62 | 23   |
|               | 09         | 105.09 PNB 17         | NPT 3/8 | 61 | 23   |
|               | 12         | 105.12 PFB 21         | BSP 1/2 | 77 | 30   |
|               | 12         | 105.12 PNB 21         | NPT 1/2 | 75 | 30   |
|               | 16         | 105.16 PFB 26         | BSP 3/4 | 99 | 36   |
|               | 16         | 105.16 PNB 26         | NPT 3/4 | 98 | 36   |



Female thread plug with valve / Verschlussnippel mit Innengewinde

TYPE 105 **rtc**

| Plug / Nippel | Size Größe | Order No / Bestellnr. | Ød        | L   | HEX. |
|---------------|------------|-----------------------|-----------|-----|------|
|               | 20         | 105.20 PFB 26         | BSP 3/4   | 127 | 42   |
|               | 20         | 105.20 PNB 26         | BSP 1     | 127 | 42   |
|               | 20         | 105.20 PNB 33         | NPT 1     | 127 | 42   |
|               | 25         | 105.25 PFB 33         | BSP 1     | 149 | 50   |
|               | 25         | 105.25 PFB 42         | BSP 1-1/4 | 149 | 50   |
|               | 25         | 105.25 PNB 42         | NPT 1-1/4 | 149 | 50   |



Male thread plug with 60° sealing cone / Nippel mit Aussengewinde 60° Dichtkonus

TYPE 105 **rtc**

| Plug / Nippel | Size Größe | Order No / Bestellnr. | Ød        | L   | L1 | HEX. |
|---------------|------------|-----------------------|-----------|-----|----|------|
|               | 09         | 105.09 POB 17         | BSP 3/8   | 59  | 12 | 23   |
|               | 12         | 105.12 POB 21         | BSP 1/2   | 75  | 14 | 30   |
|               | 16         | 105.16 POB 26         | BSP 3/4   | 99  | 16 | 36   |
|               | 20         | 105.20 POB 33         | BSP 1     | 139 | 20 | 42   |
|               | 25         | 105.25 POB 42         | BSP 1-1/4 | 152 | 21 | 50   |



Male thread plug with 24° sealing cone / Nippel mit Aussengewinde 24° Dichtkonus

TYPE 105 **rtc**

| Plug / Nippel | Size Größe | Order No / Bestellnr. | Ød            | L   | L1 | HEX. |
|---------------|------------|-----------------------|---------------|-----|----|------|
|               | 09         | 105.09 PMB 1815-12    | M18x1.5 - Ø12 | 59  | 11 | 23   |
|               | 12         | 105.12 PMB 2515-18    | M26x1.5 - Ø18 | 72  | 12 | 30   |
|               | 16         | 105.16 PMB 3020-22    | M30x2.0 - Ø22 | 95  | 14 | 36   |
|               | 20         | 105.20 PMB 3620-28    | M36x2.0 - Ø28 | 133 | 14 | 42   |
|               | 25         | 105.25 PMB 4520-35    | M45x2.0 - Ø35 | 148 | 16 | 50   |

Male threaded plugs for hydraulic pipes with 24° taper according to ISO 8434-1 (type: L)  
Nippel mit Aussengewinde mit 24° Dichtkonus (typ:L)