



# rtc<sup>®</sup>

COUPLING TECHNOLOGY



# 103

rtc TYPE



**Temperature Range - Temperaturbereich**  
-20°C +100°C (-4°F +212°F) Nitril (N)  
-10°C +180°C (+14°F +356°F) FPM (V)

**Flow size - Nennweiten**

|            |       |
|------------|-------|
| rtc 103.06 | 7 mm  |
| rtc 103.07 | 8 mm  |
| rtc 103.08 | 10 mm |
| rtc 103.11 | 11 mm |
| rtc 103.12 | 12 mm |
| rtc 103.15 | 15 mm |
| rtc 103.19 | 19 mm |
| rtc 103.25 | 25 mm |
| rtc 103.33 | 33 mm |

**Material**

|                                       |  |
|---------------------------------------|--|
| Coupler Body-<br>Kupplungsgrundkörper | Stainless steel -<br>Edelstahl                     |
| Sleeve -<br>Hülse                     | Hardened alloy steel -<br>Gehärteter Stahl         |
| Valve - Ventil                        | Stainless steel - Edelstahl                        |
| Springs - Federn                      | Stainless steel - Edelstahl                        |
| Seal - Dichtung                       | FPM (V)  |
| Balls - Kugeln                        | Stainless steel - Edelstahl                        |
| Plug - Nippel                         | Hardened stainless steel -<br>Gehärteter Edelstahl |

**Options - Optionen**

- N** NBR Seal - NBR Dichtung
- R** Red Body - Grundkörper Rot
- P** Pressure release valf -  
Druckentlastungsventil

**Using Area**

- On hydraulic oil circuits
- Hydraulic test units
- Injection moulding industries / core pullers

**Anwendungsbereiche**

- Hydraulische Verbindungen
- Hydraulik Prüfstände
- Kunststoffindustrie / Kernzüge

**Safety type coupler  
for disconnect protection**

**Sicherheitsfunktion  
für das ungewollte  
Trennen**



**Max. Working pressure / Max. Arbeitsdruck (bar)**

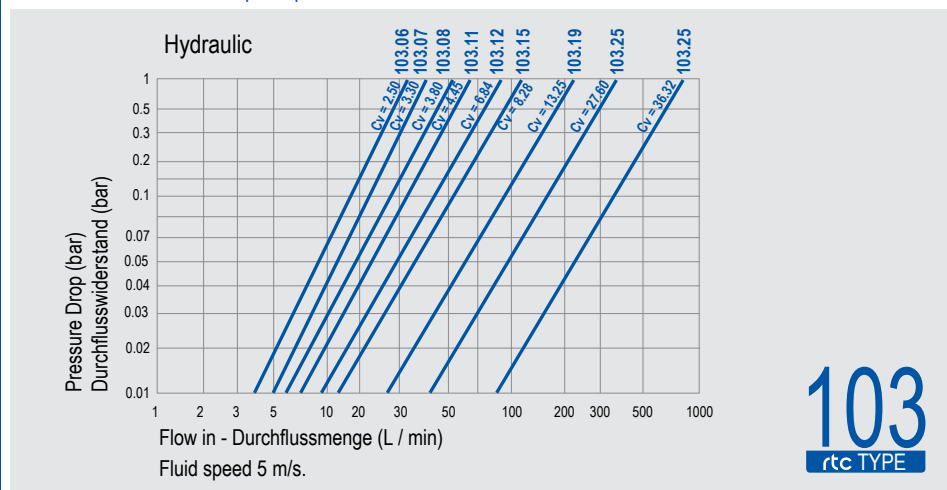
| Size / Größe | 06  | 07  | 08  | 11  | 12  | 15  | 19  | 25  | 33  |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Connected    | 800 | 500 | 450 | 450 | 400 | 400 | 400 | 350 | 350 |
| Disconnected | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 |

**Max. Residual pressure for connection under pressure (bar)**

**Max. Restdruck für die Verbindung unter Druck (bar)**

| Socket / Kupplung | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Plug / Nippel     | 50  | 50  | 50  | 50  | 50  | 50  | 50  | 50  | 50  |

**Flow Rate vs Pressure Drop Graph / Durchflussrate vs Druckabfall**



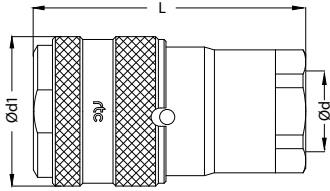
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Female thread socket / Kupplung mit Innengewinde



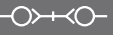
Socket / Kupplung



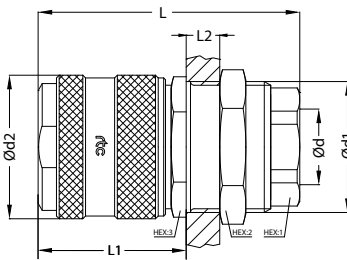
| Size Größe | Order No / Bestellnr. | Ød        | Ød1  | L    | HEX. |
|------------|-----------------------|-----------|------|------|------|
| 06         | 103.06 SFB 13         | BSP 1/4   | 27   | 58   | 22   |
| 07         | 103.07 SFB 17         | BSP 3/8   | 31.5 | 59.5 | 25   |
| 08         | 103.08 SFB 21         | BSP 1/2   | 39   | 72   | 30   |
| 11         | 103.11 SFB 21         | BSP 1/2   | 39   | 72   | 30   |
| 12         | 103.12 SFB 26         | BSP 3/4   | 50   | 89   | 41   |
| 15         | 103.15 SFB 26         | BSP 3/4   | 50   | 89   | 41   |
| 19         | 103.19 SFB 33         | BSP 1     | 64.5 | 120  | 55   |
| 25         | 103.25 SFB 42         | BSP 1-1/4 | 78   | 120  | 65   |
| 33         | 103.33 SFB 48         | BSP 1-1/2 | 87   | 138  | 80   |

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Panel mounted female thread socket / Kupplung mit Innengewinde und Schottverschraubung



Socket / Kupplung

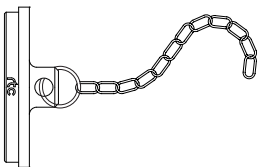


| Size Größe | Order No / Bestellnr. | Ød      | Ød1     | Ød2  | L    | L1 | L2 | HEX.1 | HEX.2 | HEX.3 |
|------------|-----------------------|---------|---------|------|------|----|----|-------|-------|-------|
| 07         | 103.07 SFBP 17        | BSP 3/8 | M30x1   | 31.5 | 59.5 | 39 | 8  | 25    | 34    | 32    |
| 08         | 103.08 SFBP 21        | BSP 1/2 | M34x1   | 39   | 72   | 42 | 13 | 30    | 38    | 36    |
| 11         | 103.11 SFBP 21        | BSP 1/2 | M34x1   | 39   | 72   | 42 | 13 | 30    | 38    | 36    |
| 12         | 103.12 SFBP 26        | BSP 3/4 | M44x1.5 | 50   | 89   | 48 | 22 | 41    | 54    | 52    |
| 15         | 103.15 SFBP 26        | BSP 3/4 | M44x1.5 | 50   | 89   | 48 | 22 | 41    | 54    | 52    |

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Dust cup for socket / Staubkappe für Kupplung

Dust Cup / Staubkappe

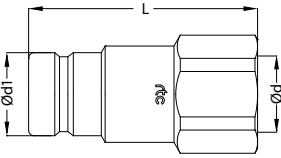


| Size Größe | Order No / Bestellnr. |
|------------|-----------------------|
| 06         | 103.06 SD 00          |
| 07         | 103.07 SD 00          |
| 08         | 103.08 SD 00          |
| 11         | 103.11 SD 00          |
| 12         | 103.12 SD 00          |
| 15         | 103.15 SD 00          |
| 19         | 103.19 SD 00          |
| 25         | 103.25 SD 00          |



Female thread plug / Nippel mit Innengewinde

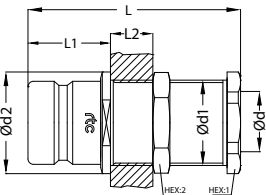
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| Plug / Nippel   | Size Größe | Order No / Bestellnr. | Ød        | Ød1  | L     | HEX. |
|---|------------|-----------------------|-----------|------|-------|------|
|  | 06         | 103.06 PFB 13         | BSP 1/4   | 14.2 | 48.5  | 19   |
|   | 07         | 103.07 PFB 17         | BSP 3/8   | 18   | 50.3  | 22   |
|   | 08         | 103.08 PFB 21         | BSP 1/2   | 22.8 | 63    | 30   |
|   | 11         | 103.11 PFB 21         | BSP 1/2   | 22.8 | 63    | 30   |
|   | 12         | 103.12 PFB 26         | BSP 3/4   | 30.8 | 74    | 36   |
|   | 15         | 103.15 PFB 26         | BSP 3/4   | 30.8 | 74    | 36   |
|   | 19         | 103.19 PFB 33         | BSP 1     | 40.1 | 95    | 45   |
|   | 25         | 103.25 PFB 42         | BSP 1-1/4 | 51   | 107.5 | 55   |
|   | 33         | 103.33 PFB 48         | BSP 1-1/2 | 64.5 | 118   | 70   |



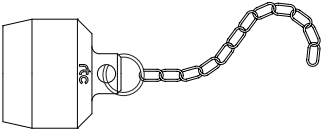
Panel mounted female thread plug / Nippel mit Innengewinde und Schottverschraubung

TYPE 103 **rtc**

| Plug / Nippel  | Size Größe | Order No / Bestellnr. | Ød      | Ød1   | Ød2 | L    | L1   | L2   | HEX.1 | HEX.2 |
|--|------------|-----------------------|---------|-------|-----|------|------|------|-------|-------|
|  | 07         | 103.07 PFBP 17        | BSP 3/8 | M22x1 | 30  | 50.3 | 21   | 15   | 24    | 24    |
|  | 08         | 103.08 PFBP 21        | BSP 1/2 | M26x1 | 36  | 63   | 24.5 | 25.5 | 30    | 32    |
|  | 11         | 103.11 PFBP 21        | BSP 1/2 | M26x1 | 36  | 63   | 24.5 | 25.5 | 30    | 32    |
|  | 12         | 103.12 PFBP 26        | BSP 3/4 | M34x1 | 41  | 74   | 30   | 25   | 41    | 38    |
|  | 15         | 103.15 PFBP 26        | BSP 3/4 | M34x1 | 41  | 74   | 30   | 25   | 41    | 38    |

Dust cup for plug / Staubkappe für Nippel

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| Dust Cup / Staubkappe   | Size Größe   | Order No / Bestellnr. |
|---|--------------|-----------------------|
|  | 06           | 103.06 PD 00          |
|   | 07           | 103.07 PD 00          |
|   | 08           | 103.08 PD 00          |
|   | 11           | 103.11 PD 00          |
|   | 12           | 103.12 PD 00          |
|   | 15           | 103.15 PD 00          |
|   | 19           | 103.19 PD 00          |
| 25  | 103.25 PD 00 |                       |