



rtc[®]

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



173

rtc TYPE

rtc 173 type automatic Coupling systems are applicable for quick changing of injection moulding and die cast molds.

rtc 173 Typ Andock Kupplungssysteme sind für den schnellen Wechsel von Spritzguss-und Druckgusswerkzeugen.



Temperature Range - Temperaturbereich

| | |
|---------------------------|-------------------------------|
| Nitrile (N) | -20°C + 110°C (-4°F + 230°F) |
| FPM (V) | -20°C + 180°C (-4°F + 356°F) |
| EPDM (Ethylene Propylene) | -40°C + 150°C (-40°F + 302°F) |
| PTFE (T) | -20°C + 270°C (-4°F + 518°F) |
| FFKM (W) | -20°C + 325°C (-4°F + 617°F) |

Flow size - Nennweite

| | |
|-----------------|--------|
| rtc type 173.03 | 3 mm |
| rtc type 173.06 | 5.5 mm |
| rtc type 173.08 | 8 mm |
| rtc type 173.11 | 11 mm |
| rtc type 173.19 | 19 mm |

Standard Types:

Material

Socket body; AISI 303 stainless steel
others are mostly %17 choremium steel

Socket back adaptor; Steel Zink Plated

IA Types:

Material

Socket body; AISI 303 stainless steel
Socket back adaptor; AISI 303 stainless steel

Plug body high resistance stainless steel

HL & HG Types:

Material

Socket body; AISI 303 stainless steel
Socket back adaptor; AISI 303 stainless steel
Others parts mainly AISI 316L stainless steel

Plug body high resistance stainless steel

HI Types:

Material

Socket body; AISI 316L stainless steel

Plug body high resistance stainless steel

IC Types:

Material

AISI 316L stainless steel

VA Types:

Vacuum

Vacuum tightness: 1.10⁻³ cm³ / s.
in connected and disconnected position.

Standardtypen:

Material

Kupplung Grundkörper aus Edelstahl AISI 303 andere sind meist 17% Chromstahl

Kupplung Hinterteil: Stahl verzinkt

IA Typen:

Material

Kupplung Grundkörper; AISI 303 Edelstahl
Kupplung Hinterteil, AISI 303 Edelstahl

Nippel Grundkörper aus widerstandsfähigen Edelstahl

HL & HG Typen:

Material

Kupplung Grundkörper; AISI 303 Edelstahl
Kupplung Hinterteil, AISI 303 Edelstahl
Andere Teile hauptsächlich aus Edelstahl AISI 316L

Nippel Grundkörper aus widerstandsfähigen Edelstahl

HI Typen:

Material

Kupplung Grundkörper; Edelstahl AISI 316L

Nippel Grundkörper aus widerstandsfähigen Edelstahl

IC Typen:

Material

Edelstahl AISI 316L

VA Typen:

Vakuum

Vakuumdichtigkeit: 1.10⁻³ cm³ / s.
in Verbindung und Trennstellung.



Docking Coupling
Andock Kupplung

Using Area

- On temperature regulation applications with air, hot or cold water, etc.
- Injection moulding industries.
- On steam line.
- Docking systems.

Anwendungsbereiche

- Werkzeugtemperierung / Kühlung. Luft, kalt oder Heisswasser
- Kunststoffindustrie
- Dampfanwendungen
- Andocksysteme

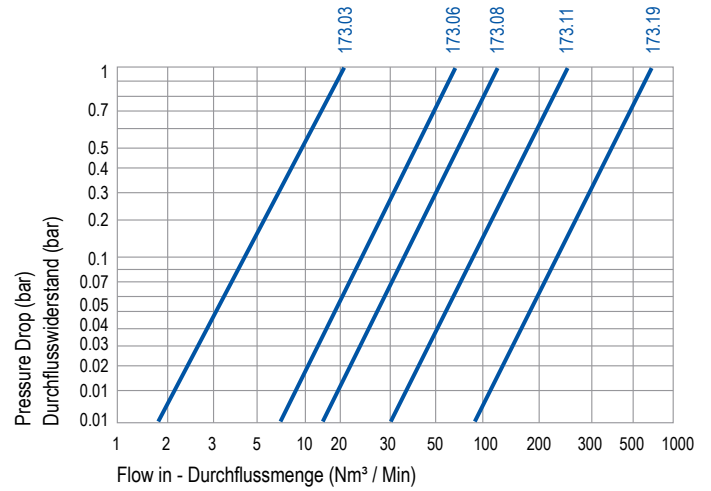
173
rtc TYPE



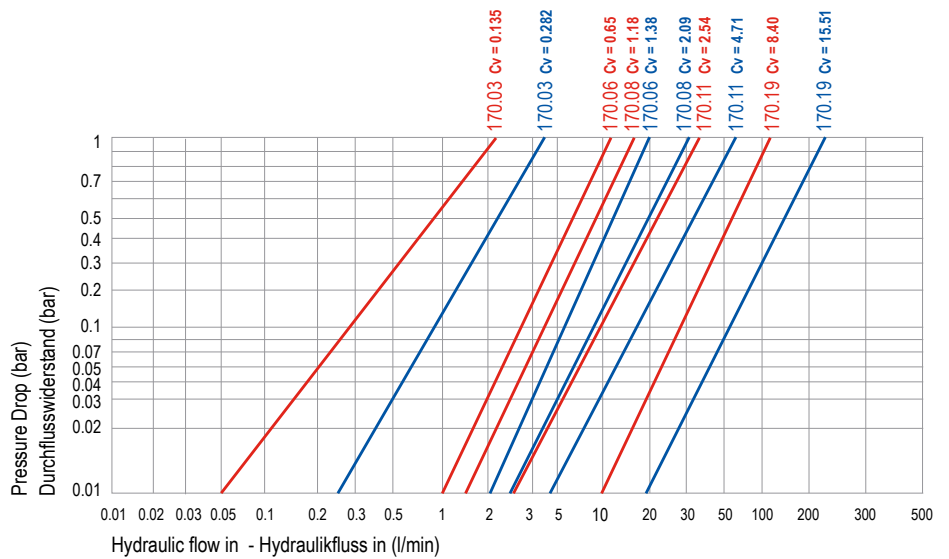
| Nominal Ø Nennweite Ø | Flow Area Fläche | Maximum Working Pressure (Bar) - Maximaler Betriebsdruck (Bar) | | | | | | |
|--------------------------|---------------------|--|---------|---------|---------|---------|---------|-----------------------|
| | | Standart Type | IA Type | IC Type | HL Type | HG Type | HI Type | VA Type |
| 3 mm | 7 mm ² | 50 | 50 | 250 | 400 | 400 | 400 | 10 ⁻³ torr |
| 5.5 mm | 24 mm ² | 50 | 50 | 250 | 450 | 450 | 450 | 10 ⁻³ torr |
| 8 mm | 50 mm ² | 50 | 50 | 250 | 400 | 400 | 400 | 10 ⁻³ torr |
| 11 mm | 95 mm ² | 50 | 50 | 200 | 350 | 350 | 350 | 10 ⁻³ torr |
| 19 mm | 284 mm ² | 50 | 50 | 200 | 300 | 300 | 300 | 10 ⁻³ torr |

Pneumatic charts flow rate Pressure Drop from the single shut-off system

Durchflussdiagramm Pneumatik Druckabfall Version einseitig absperrend



Hydraulic charts flow rate, pressure drop
Durchflussdiagramm Hydraulik, Druckabfall

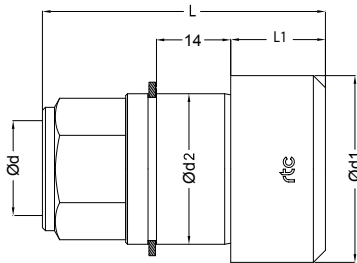




Female thread socket / Kupplung mit Innengewinde

TYPE 173 **rtc**



| Socket / Kupplung | Size Größe (mm) | →←○ | ○→← | →←← | Ød | Ød1 | Ød2 | L | L1 | HEX |
|-------------------|-----------------|---|--|---|-------------|-----|------|------|------|-----|
| | | Order No / Bestellnr. Single Shut-off Einseitig Absperrnd | Order No / Bestellnr. Double Shut-off Beidseitig Absperrnd | Order No / Bestellnr. Thru-Flow Nicht Absperrnd | | | | | | |
| 03 | | 173.03 SFO 10 | 173.03 SFB 10 | 173.03 SFF 10 | BSP 1/8 | 22 | 16 | 42.5 | 9 | 14 |
| | | 173.03 SNO 10 | 173.03 SNB 10 | 173.03 SNF 10 | NPT 1/8 | 22 | 16 | 42.5 | 9 | 14 |
| | | 173.03 SUO 1120 | 173.03 SUB 1120 | 173.03 SUF 1120 | UNF 7/16-20 | 22 | 16 | 42.5 | 9 | 14 |
| 06 | | 173.06 SFO 10 | 173.06 SFB 10 | 173.06 SFF 10 | BSP 1/8 | 32 | 26 | 49.5 | 20.5 | 22 |
| | | 173.06 SFO 13 | 173.06 SFB 13 | 173.06 SFF 13 | BSP 1/4 | 32 | 26 | 52.5 | 20.5 | 22 |
| | | 173.06 SFO 17 | 173.06 SFB 17 | 173.06 SFF 17 | BSP 3/8 | 32 | 26 | 60.5 | 20.5 | 22 |
| | | 173.06 SFO 21 | 173.06 SFB 21 | 173.06 SFF 21 | BSP 1/2 | 32 | 26 | 63.5 | 20.5 | 24 |
| | | 173.06 SNO 10 | 173.06 SNB 10 | 173.06 SNF 10 | NPT 1/8 | 32 | 26 | 47.5 | 20.5 | 22 |
| | | 173.06 SNO 13 | 173.06 SNB 13 | 173.06 SNF 13 | NPT 1/4 | 32 | 26 | 51.5 | 20.5 | 22 |
| | | 173.06 SNO 17 | 173.06 SNB 17 | 173.06 SNF 17 | NPT 3/8 | 32 | 26 | 60.5 | 20.5 | 22 |
| | 173.06 SUO 1418 | 173.06 SUB 1418 | 173.06 SUF 1418 | UN 9/16-18 | 32 | 26 | 59.5 | 20.5 | 22 | |
| 08 | | 173.08 SFO 13 | 173.08 SFB 13 | 173.08 SFF 13 | BSP 1/4 | 38 | 32 | 65 | 20 | 27 |
| | | 173.08 SFO 17 | 173.08 SFB 17 | 173.08 SFF 17 | BSP 3/8 | 38 | 32 | 65 | 20 | 27 |
| | | 173.08 SFO 21 | 173.08 SFB 21 | 173.08 SFF 21 | BSP 1/2 | 38 | 32 | 74 | 20 | 27 |
| | | 173.08 SNO 13 | 173.08 SNB 13 | 173.08 SNF 13 | NPT 1/4 | 38 | 32 | 64 | 20 | 27 |
| | | 173.08 SNO 17 | 173.08 SNB 17 | 173.08 SNF 17 | NPT 3/8 | 38 | 32 | 64 | 20 | 27 |
| | | 173.08 SNO 21 | 173.08 SNB 21 | 173.08 SNF 21 | NPT 1/2 | 38 | 32 | 74 | 20 | 27 |
| | | 173.08 SUO 1916 | 173.08 SUB 1916 | 173.08 SUF 1916 | UN 3/4-16 | 38 | 32 | 76.5 | 20 | 27 |
| 11 | | 173.11 SFO 17 | 173.11 SFB 17 | 173.11 SFB 17 | BSP 3/8 | 45 | 38 | 76 | 14.4 | 32 |
| | | 173.11 SFO 21 | 173.11 SFB 21 | 173.11 SFB 21 | BSP 1/2 | 45 | 38 | 78 | 14.4 | 32 |
| | | 173.11 SFO 26 | 173.11 SFB 26 | 173.11 SFB 26 | BSP 3/4 | 45 | 38 | 86 | 14.4 | 34 |
| | | 173.11 SNO 17 | 173.11 SNB 17 | 173.11 SNB 17 | NPT 3/8 | 45 | 38 | 74 | 14.4 | 32 |
| | | 173.11 SNO 21 | 173.11 SNB 21 | 173.11 SNB 21 | NPT 1/2 | 45 | 38 | 76 | 14.4 | 32 |
| | | 173.11 SNO 26 | 173.11 SNB 26 | 173.11 SNB 26 | NPT 3/4 | 45 | 38 | 80 | 14.4 | 34 |
| | 173.11 SUO 2214 | 173.11 SUB 2214 | 173.11 SUB 2214 | UN 7/8-14 | 45 | 38 | 86 | 14.4 | 32 | |
| 19 | | 173.19 SFO 26 | 173.19 SFB 26 | 173.19 SFF 26 | BSP 3/4 | 60 | 54 | 119 | 9 | 46 |
| | | 173.19 SFO 33 | 173.19 SFB 33 | 173.19 SFF 33 | BSP 1 | 60 | 54 | 121 | 9 | 46 |
| | | 173.19 SNO 26 | 173.19 SNB 26 | 173.19 SNF 26 | NPT 3/4 | 60 | 54 | 123 | 9 | 46 |
| | | 173.19 SNO 33 | 173.19 SNB 33 | 173.19 SNF 33 | NPT 1 | 60 | 54 | 125 | 9 | 46 |

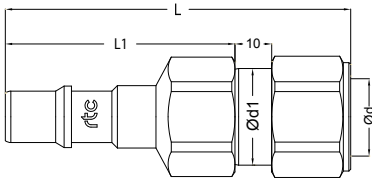


rtc TYPE 173

Female thread plug / Nippel mit Innengewinde



| Plug / Nippel | Size Größe (mm) |  |  | Ød | Ød1 | L | L1 | HEX |
|-----------------|-----------------|---|---|---------------|---------------|---------|------|-----|
| | | Order No / Bestellnr. Double Shut-off Beidseitig Absperrend | Order No / Bestellnr. Thru-Flow Nicht Absperrend | | | | | |
| 03 | 03 | 173.03 PFB 10 | 173.03 PFF 10 | BSP 1/8 | 15.8 | 51 | 29 | 14 |
| | | 173.03 PNB 10 | 173.03 PNF 10 | NPT 1/8 | 15.8 | 51 | 29 | 14 |
| | | 173.03 PUB 1120 | 173.03 PUF 1120 | UNF 7/16-20 | 15.8 | 56 | 29 | 14 |
| 06 | 06 | 173.06 PFB 10 | 173.06 PFF 10 | BSP 1/8 | 16 | 65 | 43 | 17 |
| | | 173.06 PFB 13 | 173.06 PFF 13 | BSP 1/4 | 16 | 72 | 43 | 17 |
| | | 173.06 PFB 17 | 173.06 PFF 17 | BSP 3/8 | 16 | 72 | 43 | 22 |
| | | 173.06 PNB 10 | 173.06 PNF 10 | NPT 1/8 | 16 | 67 | 43 | 17 |
| | | 173.06 PNB 13 | 173.06 PNF 13 | NPT 1/4 | 16 | 72 | 43 | 17 |
| | | 173.06 PNB 17 | 173.06 PNF 17 | NPT 3/8 | 16 | 72 | 43 | 22 |
| | | 173.06 PFB 1615 | 173.06 PFF 1615 | M16x1.5 | 16 | 72 | 43 | 19 |
| | | 173.06 PUB 1418 | 173.06 PUF 1418 | UN 9/16-18 | 16 | 72 | 43 | 17 |
| 08 | 08 | 173.08 PFB 13 | 173.08 PFF 13 | BSP 1/4 | 21.5 | 80 | 52 | 24 |
| | | 173.08 PFB 17 | 173.08 PFF 17 | BSP 3/8 | 21.5 | 80 | 52 | 24 |
| | | 173.08 PFB 21 | 173.08 PFF 21 | BSP 1/2 | 21.5 | 82 | 52 | 24 |
| | | 173.08 PNB 13 | 173.08 PNF 13 | NPT 1/4 | 21.5 | 80 | 52 | 24 |
| | | 173.08 PNB 17 | 173.08 PNF 17 | NPT 3/8 | 21.5 | 80 | 52 | 24 |
| | | 173.08 PNB 21 | 173.08 PNF 21 | NPT 1/2 | 21.5 | 84 | 52 | 24 |
| | | 173.08 PUB 1916 | 173.08 PUF 1916 | UN 3/4-16 | 21.5 | 84 | 52 | 24 |
| | | 11 | 11 | 173.11 PFB 13 | 173.11 PFF 13 | BSP 1/4 | 26.4 | 90 |
| 173.11 PFB 17 | 173.11 PFF 17 | | | BSP 3/8 | 26.4 | 90 | 62.5 | 30 |
| 173.11 PFB 21 | 173.11 PFF 21 | | | BSP 1/2 | 26.4 | 94 | 62.5 | 30 |
| 173.11 PFB 26 | 173.11 PFF 26 | | | BSP 3/4 | 26.4 | 99 | 62.5 | 34 |
| 173.11 PNB 17 | 173.11 PNF 17 | | | NPT 3/8 | 26.4 | 90 | 62.5 | 30 |
| 173.11 PNB 21 | 173.11 PNF 21 | | | NPT 1/2 | 26.4 | 94 | 62.5 | 30 |
| 173.11 PNB 26 | 173.11 PNF 26 | | | NPT 3/4 | 26.4 | 99 | 62.5 | 34 |
| 173.11 PUB 2214 | 173.11 PUF 2214 | | | UN 7/8-14 | 26.4 | 97 | 62.5 | 30 |
| 19 | 19 | 173.19 PFB 26 | 173.19 PFF 26 | BSP 3/4 | 39 | 132 | 88 | 41 |
| | | 173.19 PFB 33 | 173.19 PFF 33 | BSP 1 | 39 | 139 | 88 | 41 |
| | | 173.19 PNB 26 | 173.19 PNF 26 | NPT 3/4 | 39 | 132 | 88 | 41 |
| | | 173.19 PNB 33 | 173.19 PNF 33 | NPT 1 | 39 | 139 | 88 | 41 |
| | | 173.19 PUB 3312 | 173.19 PUF 3312 | UN 1-5/16-12 | 39 | 139 | 88 | 41 |





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