

BEISIT®

倍仕得电气科技(杭州)股份有限公司
BEISIT ELECTRIC TECH (HANGZHOU) CO.,LTD.



BBT Fluid Connector
BBT流体快速连接器

BBT

流体快速连接器

BBT Fluid Connector



安全环保 Safe & Environmental

- 双向平面密封，连接/断开无滴漏。
- 平面密封设计，既方便清洁，又避免介质受污染。
- 插头、插座均配有保护套，防止在运输中密封面受污染。
- 有断开卸压选型需求，请联系我司。
- Bi-directional flat sealed design that ensures no leakage during connection and disconnection.
- Flat seal design, which is easy to clean and avoids contamination of the medium.
- Plug and Socket are equipped with protective caps to prevent the sealing surface from being polluted during transportation.
- Please contact us if you have requirement for pressure relief after disconnection.

稳定可靠 Stable & Reliable

- 适用极端振动环境，连接更稳定。
- 精选的材质配合独特的表面处理使产品坚固可靠的同时，实现高耐腐蚀性、高耐磨性。
- 有多种密封材质O型圈可选，适应不同介质温度需求，保证密封效果长期稳定可靠。
- 插头插座连接处O型圈的径向设计，保证在连接时，阀门打开前已完成密封。
- More stable connection for extreme vibration environments.
- The selected material combined with unique surface treatment not only makes the product sturdy and reliable, but also achieving high corrosion resistance and wear resistance.
- Various sealing material O-rings are available to meet the temperature requirements of different media and guarantee long-term stable & and reliable sealing performance.
- The radial design of the O-ring at the connection of the Plug and Socket ensures that the sealing function has been completed before the valve is opened during connection.

方便快捷 Convenient

- 推入即可锁紧连接并密封，单手操作简单快捷。
- 多种颜色选择，快速辨别不同回路。
- G外螺纹默认带密封圈，使安装更方便，密封更轻松。
- Push-in to lock the connection and seal, which is easy and convenient to operate by one hand.
- Multiple color options for quick identification of different circuits.
- G external thread with O-ring makes installation more convenient and sealing easier.

个性化定制 Customized

- 可定制接头尾端匹配接口，方便安装。
- 定制软管集成，美观，降低泄漏风险。
- 其他定制要求请咨询我司。
- Providing customized end-fitting for easy installation.
- Providing customized hose integration with aesthetic appearance and reducing risk of leakage.
- For other customization requirements, please contact us freely.

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**应用领域 Application Fields**

- 军工防务、航空航天等领域 Military defense, Aerospace and other fields
- 数据中心、超级计算机 Data center, Supercomputer
- 轨道交通、新能源汽车 Rail transit, New energy vehicles
- 工业 Industry

适用介质 Fluids

- 冷却液 Coolant
- 水-乙二醇 Glycol Water
- 导热油 Heat transfer oils
- 酯类 Esters
- 煤油 kerosene

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基础型号

补充选项, 后缀信息

BBT 03S G18F - SS - NB - 90 - RD

颜色 Colour

| | |
|-------|-------|
| RD 红色 | GN 绿色 |
| YW 黄色 | BK 黑色 |
| BU 蓝色 | |

角度 Angle

00 直通 (默认, 型号不体现)
90 90度弯头
45 135度弯头

密封圈 Sealing

| | |
|-------------------------|-------------|
| EP 乙烯橡胶EPDM (默认, 型号不体现) | FF 高氟橡胶FFKM |
| NB 丁腈橡胶NBR | CR 氯丁橡胶CR |
| FM 氟碳橡胶FPM/FKM/Viton | |
| FV 氟硅橡胶FVMQ | |

材料 Material

AL 铝合金 (默认, 型号不体现)
SS 不锈钢316L
BR 铜
SA 不锈钢304

内外螺纹 Internal and external threads

F 内螺纹
M 外螺纹

G/R/N/J螺纹尺寸 Size

| | |
|--------|-----------|
| 18 1/8 | 32 1-1/2吋 |
| 14 1/4 | 01 1吋 |
| 38 3/8 | 02 2吋 |
| 12 1/2 | 04 4吋 |
| 34 3/4 | |

M螺纹尺寸 Size

08 M8螺纹
12 M12螺纹
21 M21螺纹

H08 接08内径的橡胶软管
S10 接10mm外径的不锈钢管
B810 接8x10的铜管
T812 接8x12的塑料管
F3636 法兰孔36x36

连接方式 Connection method

| | |
|------------------------|-------------|
| G G螺纹 | H 软管Hose |
| R R螺纹 | S 不锈钢管 SS |
| N NPT螺纹 | B 铜管 Brass |
| J UNF螺纹JIC37°锥 ISO8434 | T 扣压塑料管TUBE |
| M M螺纹 | F 法兰Flange |

插头插座 Plug socket

S 插座
P 插头

等效通径 Equivalent diameter

| | | |
|----------|-----------|------------|
| 03 口径3mm | 09 口径9mm | 20 口径20mm |
| 05 口径5mm | 10 口径10mm | 25 口径25mm |
| 06 口径6mm | 12 口径12mm | 50 口径50mm |
| 08 口径8mm | 16 口径16mm | 00 口径100mm |

类目名称 Category name

| | |
|------------|------------|
| B 自动连接平面密封 | BBT 卡口 |
| S 不含锁紧系统 | BTG 三曲槽 |
| T 其他 | BSL 钢珠自锁 |
| | SCB 盲插 |
| | SDB 位移盲插 |
| | TPP 推拉平面密封 |
| | TSF 螺纹锁紧连接 |
| | TPB 按钮金属接头 |

| 材质 Material | 编码 Code | 工作温度 Working temperature | 应用 Application |
|-----------------------|------------|-----------------------------|---|
| 丁腈橡胶 NBR | NB | -15 ~ + 100°C | 1、一般应用 2、良好的机械强度 1. General applications. 2. High mechanical strength. |
| 氟碳橡胶 FPM、FKM、Viton | FM | -10 ~ + 200°C | 1、良好的耐化学性 2、优异的耐高温性能，可用于最高200°C的应用 3、适用于矿物油、合成液压油、燃料、化工产品、碳氢化合物和导热流体回路 1. Good chemical resistance. 2. Outstanding resistance to high temperatures up to 200°C. 3. Resistance to mineral oils, synthetic hydraulic oils, fuels, chemicals, hydrocarbons and coolants. |
| 乙丙橡胶 EPDM | EP | -20 ~ + 150°C | 1、优异的耐高温性 2、适用于磷酸盐酯型制动液，冷、热水，蒸汽 3、注意介质回路各部件不能使用含矿物油的情况 1. Excellent resistance to high temperatures. 2. Compatible with phosphate-based brake fluids - esters, hot and cold water, steam. 3. Pay attention to the use of mineral oil in the components of the medium circuit |
| 高氟橡胶 FFKM | FF | 0 ~ + 250°C | 1、兼具弹性体和聚四氟乙烯耐化学腐蚀性的特点 2、具有很好的耐热性和耐多数化学剂 3、适用于导热流体 1. Combines the qualities of an elastomer with the chemical resistance of PTFE. 2. Remarkable resistance to heat and most chemical agents including inorganic and organic acids. 3. Coolants. |
| 氟硅橡胶 FVMQ | FV | -45 ~ + 175°C | 1、最大工作压力：50 bar 2、良好的耐低温和耐高温性能 3、适用于矿物油、燃料 1. Max. working pressure: 50 bar. 2. Good resistance to low and high temperatures. 3. Resistance to mineral oils, fuels. |
| 聚四氟乙烯 PTFE | PT | -50 ~ + 200°C | 1、最大工作压力：80 bar 2、良好的耐化学性 3、优异的耐低温和耐高温性能 4、比弹性体的性能更优异 1. Max. working pressure: 80 bar. 2. Excellent chemical resistance. 3. Very good resistance to low and high temperatures. 4. Superior performance to elastomers. |
| 氯丁橡胶 CR | CR | -40 ~ + 100°C | 耐老化，特别适用于制冷液 Good resistance to ageing and refrigerants. |

为了选择最能满足您应用需求的解决方案，建议向我们提供如下准确信息：

In order to choose the solution that best meets your application needs, it is recommended to provide us with the following accurate information:

- 1、流体类型 2、工作压力 3、工作温度 4、水溶液的盐和酸浓度 5、特别的使用条件
1. Fluid type 2. Work pressure 3. Working temperature 4. Salt and acid concentration of aqueous solution 5. Special usage conditions

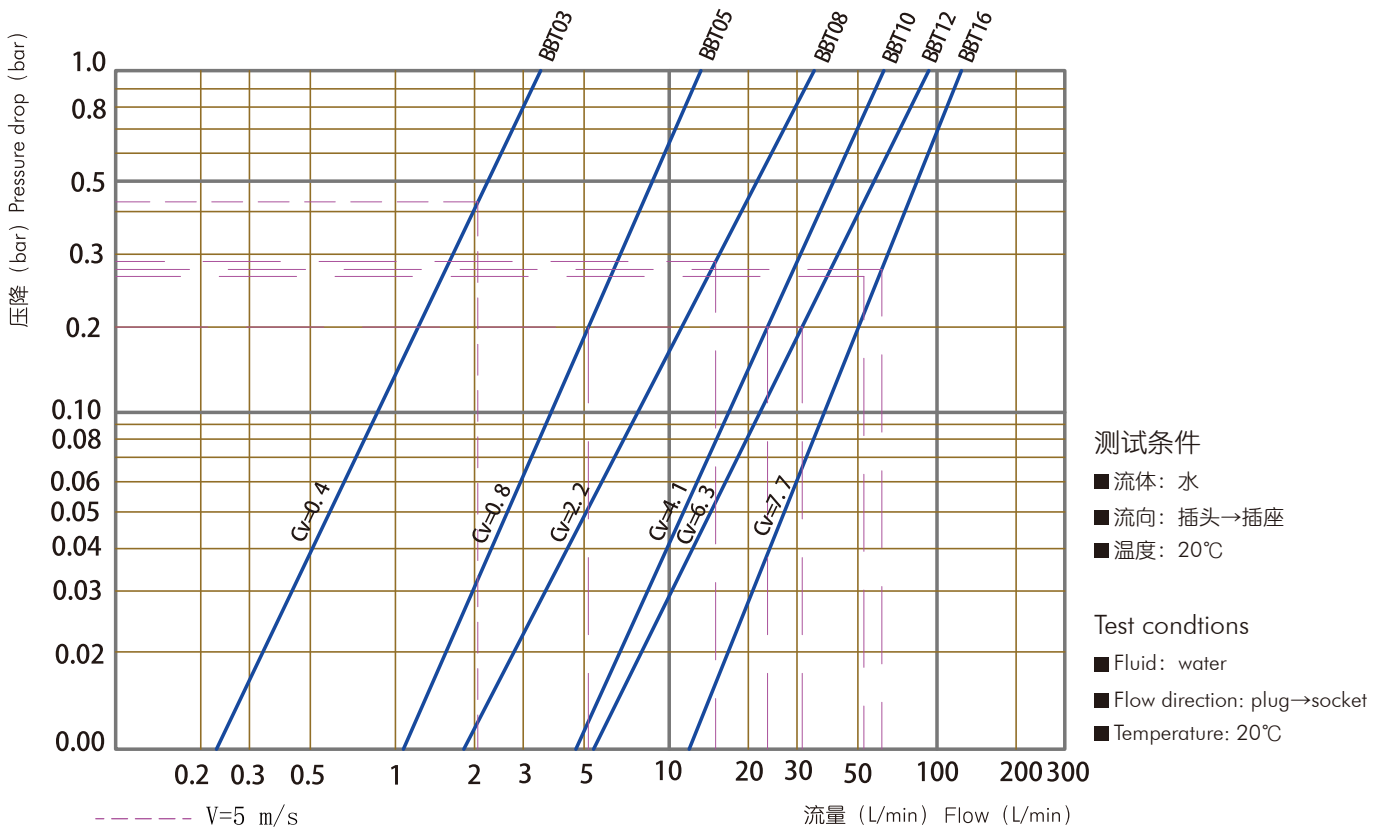
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普通型 Regular Type

| 产品型号 Product Model | BBT03 | BBT05 | BBT08 | BBT10 | BBT12 | BBT16 |
|--|-------|-------|-------|-------|-------|-------|
| 额定工作压力 (bar) Working Pressure (bar) | 20 | 20 | 20 | 20 | 20 | 20 |
| Cv值 (Gal/min) Cv (Gal/min) | 0.4 | 0.8 | 2.2 | 4.1 | 6.3 | 7.7 |
| 额定工作流量 (L/Min) Working Flow (L/Min) | 2.1 | 5.88 | 15 | 23.55 | 33.9 | 60.3 |
| 单次插拔最大泄露量 (ml) Leakage Per Disconnection (ml) | 0.002 | 0.02 | 0.03 | 0.05 | 0.05 | 0.09 |

BBT流量曲线
BBT Flow Chart



→ BBT03

插头插座连接图
Plug and socket connection diagram

$L = L1 + L2 - X$
 $X = 16.5\text{mm}$



| | Picture | End Fitting Type | L1 | L2 | L3 | L4 | D1 | D2 | Hex | Product model |
|----|---------|-------------------------------|------|------|----|----|----|----|------|----------------|
| 插头 | | JIC37°锥 UNF3/8-24 | 46.5 | / | 13 | / | 16 | / | 13.5 | BBT 03P J38 |
| | | JIC37°锥 UNF3/8-24 90°弯头 | 44 | / | 13 | / | 16 | / | 13.5 | BBT 03P J38-90 |
| 插座 | | JIC37°锥 UNF3/8-24 | / | 44.5 | / | 13 | / | 16 | 15.5 | BBT 03S J38 |
| | | 法兰螺纹 孔位16.6x16.6 | / | 34.5 | / | / | / | 16 | 25 | BBT 03S F1616 |

若需咨询其他尾端连接方式，请随时联系我们的技术专家。
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→ BBT05

插头插座连接图
Plug and socket connection diagram

$L = L1 + L2 - X$
 $X = 18.6\text{mm}$



| | Picture | End Fitting Type | L1 | L2 | L3 | L4 | D1 | D2 | Hex | Product model |
|----|---------|-----------------------|------|------|------|----|----|----|-----|---------------|
| 插头 | | G1/4外螺纹 | 47 | / | 11 | / | 21 | / | 19 | BBT 05P G14M |
| | | 接内径 9.5mm软管 | 66.5 | / | 21.5 | / | 21 | / | 19 | BBT 05P H10 |
| 插座 | | JIC37° 锥UNF9/16-18 | / | 48.5 | / | 14 | / | 22 | 20 | BBT 05S J916 |
| | | 法兰螺纹 孔位18x18 | / | 43 | / | / | / | 20 | 28 | BBT 05S F1818 |

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→ BBT08

插头插座连接图
Plug and socket connection diagram

$L = L1 + L2 - X$
 $X = 22.5\text{mm}$



| | Picture | End Fitting Type | L1 | L2 | L3 | L4 | D1 | D2 | Hex | Product model |
|----|---------|------------------|------|----|----|----|------|----|-----|---------------|
| 插头 | | G3/8外螺纹 | 55.5 | / | 12 | / | 29.5 | / | 26 | BBT 08P G38M |
| | | G3/8内螺纹 | 59.5 | / | 13 | / | 29.5 | / | 26 | BBT 08P G38F |
| 插座 | | G3/8内螺纹 | / | 50 | / | 13 | / | 27 | 24 | BBT 08S G38F |
| | | 法兰螺纹 孔位22x22 | / | 41 | / | / | / | 25 | 30 | BBT 08S F2222 |

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→ BBT10

插头插座连接图
Plug and socket connection diagram

$L = L1 + L2 - X$
 $X = 30.5\text{mm}$



| | Picture | End Fitting Type | L1 | L2 | L3 | L4 | D1 | D2 | Hex | Product model |
|----|---------|------------------|----|------|----|----|------|------|-----|---------------|
| 插头 | | G1/2外螺纹 | 65 | / | 14 | / | 34.5 | / | 30 | BBT 10P G12M |
| | | G1/2内螺纹 | 70 | / | 15 | / | 34.5 | / | 30 | BBT 10P G12F |
| 插座 | | G1/2外螺纹 | / | 47.5 | / | 14 | / | 34.5 | 30 | BBT 10S G12M |
| | | G1/2内螺纹 | / | 52.5 | / | 15 | / | 34.5 | 30 | BBT 10S G12F |

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→ BBT12

插头插座连接图
Plug and socket connection diagram

$L = L1 + L2 - X$
 $X = 32.1\text{mm}$



| | Picture | End Fitting Type | L1 | L2 | L3 | L4 | D1 | D2 | Hex | Product model |
|----|---------|------------------|----|----|----|----|----|----|-----|---------------|
| 插头 | | G1/2外螺纹 | 80 | / | 14 | / | 40 | / | 35 | BBT 12P G12M |
| | | 接内径 19mm软管 | 92 | / | 32 | / | 40 | / | 35 | BBT 12P H19 |
| 插座 | | G1/2外螺纹 | / | 69 | / | 14 | / | 40 | 36 | BBT 12S G12M |
| | | 法兰螺纹 孔位34x34 | / | 55 | / | / | / | 40 | 45 | BBT 12S F3434 |

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→ BBT16

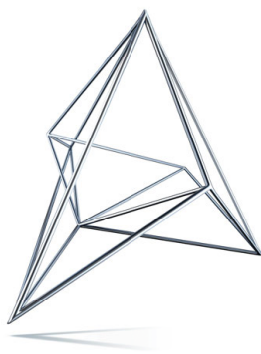
插头插座连接图
Plug and socket connection diagram

$L = L1 + L2 - X$
 $X = 41.4\text{mm}$



| | Picture | End Fitting Type | L1 | L2 | L3 | L4 | D1 | D2 | Hex | Product model |
|----|---------|------------------|-----|----|----|----|------|----|-----|---------------|
| 插头 | | G3/4外螺纹 | 106 | / | 16 | / | 48.5 | / | 40 | BBT 16P G34M |
| | | M27内螺纹 | 105 | / | 20 | / | 48.5 | / | 40 | BBT 16P M27F |
| 插座 | | G3/4外螺纹 | / | 89 | / | 16 | / | 48 | 40 | BBT 16S G34M |
| | | M27外螺纹 | / | 89 | / | 16 | / | 48 | 40 | BBT 16S M27M |

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