

BEISIT®

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



BTG TYPE Fluid Connector
BTG流体快速连接器

BTG

流体快速连接器

BTG Fluid Connector



安全环保 Safe & Environmental

- 干式接头，双向平面密封，连接/断开无泄漏。
- 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。
- Dry Disconnect Couplings, 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.

稳定可靠 Stable & Reliable

- 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。
- 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

- 旋入即可锁紧连接密封，操作轻松方便。
- 多种颜色选择，快速辨别不同回路。
- 大口径可选手轮，更容易连接和断开。
- Screw-in to lock the connection seal, easy and convenient to operate.
- Multiple color options for quick identification of different circuits.
- Hand wheel is available for large diameter, which is easier to connect and disconnect.

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 Military defense
- 石化 Bulk chemical and petrochemical
- 生物技术 Biotechnology
- 流体分配和传输系统 Biotechnology Fluid distribution and transfer system
- 铁路槽罐车、槽罐车、船舶、集装箱、储罐和吨桶的装载和卸载
loading and unloading of railway tank cars,tank cars,ship ,containers and tons of drums
- 测试平台连接 The link for the test stand

流体 Fluids

- 石油 Petroleum
- 天然气 Natural gas
- 特殊化学物质 Special chemical
- 可对客户特殊流体针对性开发 It can be developed for customers' special fluids

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基础型号 补充选项，后缀信息
BTG 25S G01F - SS - NB

密封圈 Sealing

| | |
|----------------------|-------------|
| EP 乙烯橡胶EPDM (默认) | 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

| |
|------------------------|
| SS 不锈钢316L (默认, 型号不体现) |
| AL 铝合金 |
| 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

| | |
|-----------|-------|
| 01 1吋 | 03 3吋 |
| 32 1-1/2吋 | 04 4吋 |
| 02 2吋 | |
| 52 2-1/2吋 | |

M螺纹尺寸 Size

| |
|----------------|
| 08 M8螺纹 |
| 12 M12螺纹 |
| 21 M21螺纹 |
| F3636 法兰孔36x36 |

连接方式 Connection method

| | |
|---------|------------------------|
| G G螺纹 | J UNF螺纹JIC37°锥 ISO8434 |
| R R螺纹 | M M螺纹 |
| N NPT螺纹 | F 法兰Flange |

插头插座 Plug socket

| |
|------|
| S 插座 |
| P 插头 |

标称口径 Nominal aperture

| | |
|-------------|-------------|
| 25 等效直径20mm | 65 等效直径50mm |
| 32 等效直径25mm | 80 等效直径60mm |
| 40 等效直径30mm | 00 等效直径80mm |
| 50 等效直径40mm | |

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

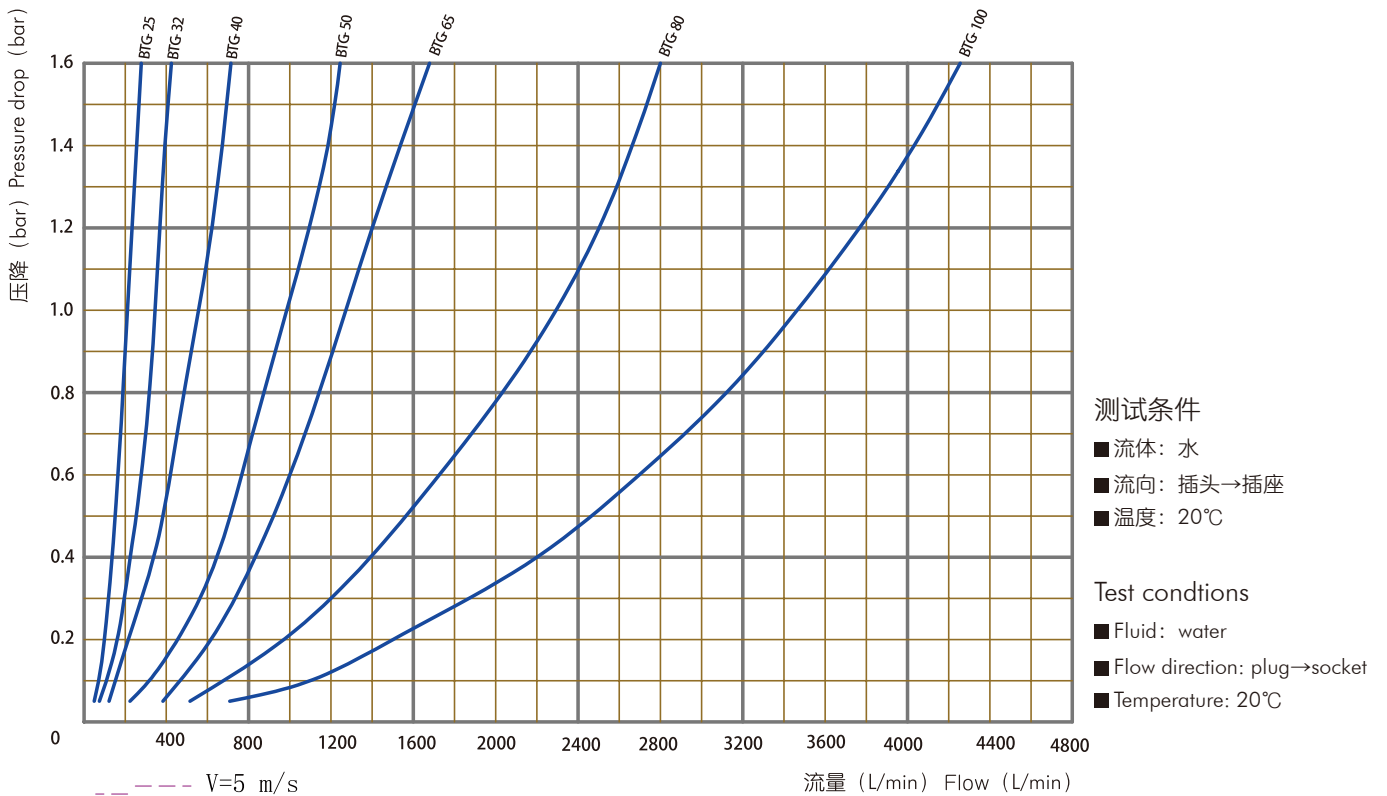
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普通型 Regular Type

| 产品型号 Product Model | BTG25 | BTG32 | BTG40 | BTG50 | BTG65 | BTG80 | BTG100 |
|--|-------|-------|-------|-------|-------|-------|--------|
| 额定工作压力 (bar) Working Pressure (bar) | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Cv值 (Gal/min) Cv (Gal/min) | 14 | 26.8 | 37.3 | 67.7 | 91 | 158.7 | 234.6 |
| 额定工作流量 (L/Min) Working Flow (L/Min) | 94 | 147 | 211 | 376 | 588 | 847 | 1507 |
| 单次插拔泄露量 (ml) Leakage Per Disconnection (ml) | 0.15 | 0.22 | 1.3 | 2 | 2.8 | 3 | 3.5 |

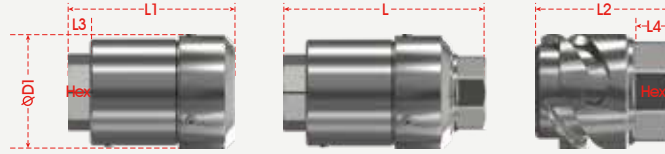
BTG流量曲线
BTG Flow Chart



→ BTG25

插头插座连接图
Plug and socket connection diagram

$L = L1 + L2 - X$
 $X = 39\text{mm}$



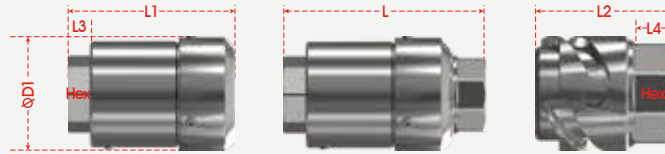
| | Picture | End Fitting Type | L1 | L2 | L3 | L4 | D1 | D2 | Hex | Product model |
|----|---------|-------------------------|----|-----|------|------|------|----|-----|---------------|
| 插头 | | G1" | 89 | / | 11.4 | / | 59.5 | / | 38 | BTG 25P G01F |
| | | HG/T 20592 DN25 PN25 | 89 | / | 18 | / | 59.5 | / | 38 | BTG 25P F8585 |
| 插座 | | G1" | / | 53 | / | 11.4 | / | 44 | 38 | BTG 25S G01F |
| | | HG/T 20592 DN25 PN25 | / | 107 | / | 18 | / | 44 | 38 | BTG 25S F8585 |

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→ BTG32

插头插座连接图
Plug and socket connection diagram

$L = L1 + L2 - X$
 $X = 44\text{mm}$



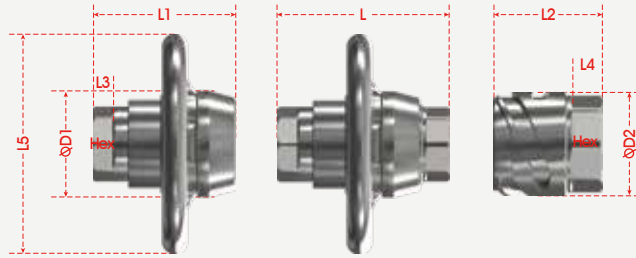
| | Picture | End Fitting Type | L1 | L2 | L3 | L4 | D1 | D2 | Hex | Product model |
|----|---------|-------------------------|-------|----|----|----|----|----|-----|-----------------|
| 插头 | | G1-1/4" | 98.5 | / | 12 | / | 76 | / | 50 | BTG 32P G54F |
| | | HG/T 20592 DN32 PN25 | 116.5 | / | 18 | / | 76 | / | 50 | BTG 32P F100100 |
| 插座 | | G1-1/4" | / | 65 | / | 12 | / | 54 | 50 | BTG 32S G54F |
| | | HG/T 20592 DN32 PN25 | / | 77 | / | 12 | / | 54 | 50 | BTG 32S F100100 |

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→ BTG40

插头插座连接图
Plug and socket connection diagram

$L = L1 + L2 - X$
 $X = 49\text{mm}$



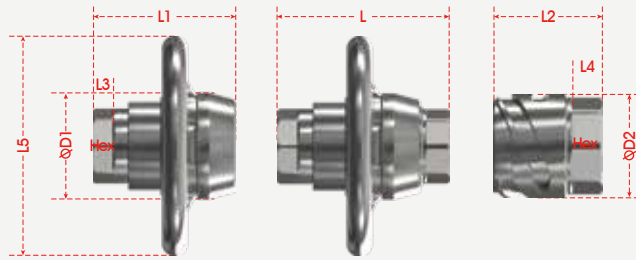
| | Picture | End Fitting Type | L1 | L2 | L3 | L4 | L5 | D1 | D2 | Hex | Product model |
|----|---------|----------------------|-----|----|----|----|-----|----|------|-----|-----------------|
| 插头 | | G1-1/2" | 115 | / | 16 | / | 200 | 89 | / | 55 | BTG 40P G32F |
| | | HG/T 20592 DN40 PN25 | 133 | / | 18 | / | 200 | 89 | / | 55 | BTG 40P F110110 |
| 插座 | | G1-1/2" | / | 76 | / | 16 | / | / | 62.5 | 55 | BTG 40S G32F |
| | | HG/T 20592 DN40 PN25 | / | 94 | / | 18 | / | / | 62.5 | 55 | BTG 40S F110110 |

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→ BTG50

插头插座连接图
Plug and socket connection diagram

$L = L1 + L2 - X$
 $X = 56.5\text{mm}$



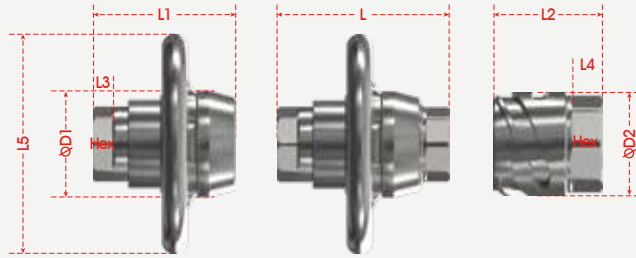
| | Picture | End Fitting Type | L1 | L2 | L3 | L4 | L5 | D1 | D2 | Hex | Product model |
|----|---------|----------------------|-----|------|----|----|-----|-----|------|-----|-----------------|
| 插头 | | G2" | 143 | / | 19 | / | 220 | 106 | / | 70 | BTG 50P G02F |
| | | HG/T 20592 DN50 PN25 | 166 | / | 21 | / | 220 | 106 | / | 70 | BTG 50P F125125 |
| 插座 | | G2" | / | 85.5 | / | 19 | / | / | 79.6 | 70 | BTG 50S G02F |
| | | HG/T 20592 DN50 PN25 | / | 107 | / | 21 | / | / | 79.6 | 70 | BTG 50S F125125 |

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→ BTG65

插头插座连接图
Plug and socket connection diagram

$L = L1 + L2 - X$
 $X = 65\text{mm}$



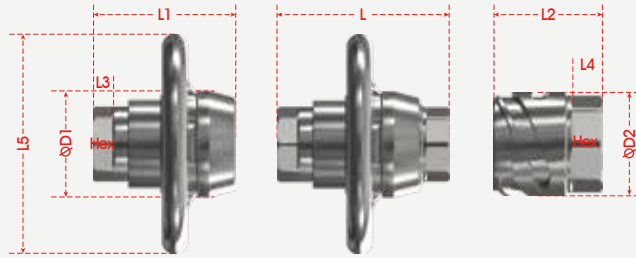
| | Picture | End Fitting Type | L1 | L2 | L3 | L4 | L5 | D1 | D2 | Hex | Product model |
|----|---------|----------------------|-----|-----|----|----|-----|-----|------|-----|-----------------|
| 插头 | | G2-1/2" | 161 | / | 23 | / | 240 | 121 | / | 85 | BTG 65P G52F |
| | | HG/T 20592 DN65 PN25 | 179 | / | 18 | / | 240 | 121 | / | 85 | BTG 65P F145145 |
| 插座 | | G2-1/2" | / | 95 | / | 23 | / | / | 94.2 | 85 | BTG 65S G52F |
| | | HG/T 20592 DN65 PN25 | / | 113 | / | 18 | / | / | 94 | 85 | BTG 65S F145145 |

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→ BTG80

插头插座连接图
Plug and socket connection diagram

$L=L1+L2-X$
 $X=74\text{mm}$



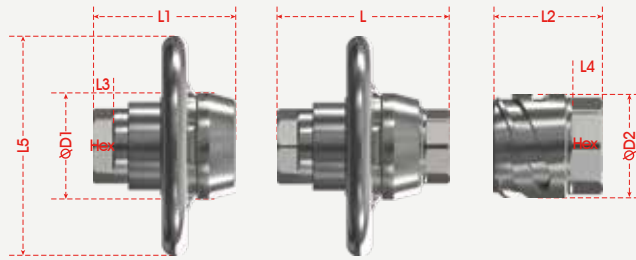
| | Picture | End Fitting Type | L1 | L2 | L3 | L4 | L5 | D1 | D2 | Hex | Product model |
|----|---------|----------------------|-----|-----|----|----|-----|-----|-----|-----|-----------------|
| 插头 | | G3" | 183 | / | 22 | / | 270 | 148 | / | 95 | BTG 80P G03F |
| | | HG/T 20592 DN80 PN25 | 203 | / | 20 | / | 270 | 148 | / | 95 | BTG 80P F160160 |
| 插座 | | G3" | / | 105 | / | 22 | / | / | 118 | 95 | BTG 80S G03F |
| | | HG/T 20592 DN80 PN25 | / | 125 | / | 20 | / | / | 118 | 95 | BTG 80S F160160 |

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→ BTG100

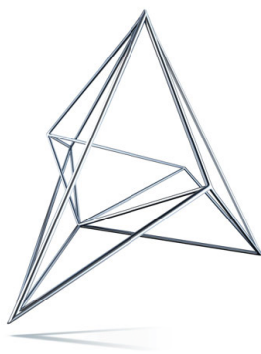
插头插座连接图
Plug and socket connection diagram

$L = L1 + L2 - X$
 $X = 83.5\text{mm}$



| | Picture | End Fitting Type | L1 | L2 | L3 | L4 | L5 | D1 | D2 | Hex | Product model |
|----|---------|-----------------------|-----|-----|----|----|-----|-----|-----|-----|-----------------|
| 插头 | | G4" | 199 | / | 22 | / | 330 | 180 | / | 125 | BTG 80P G04F |
| | | HG/T 20592 DN100 PN25 | 219 | / | 20 | / | 330 | 180 | / | 125 | BTG 80P F190190 |
| 插座 | | G4" | / | 113 | / | 22 | / | / | 146 | 125 | BTG 80S G04F |
| | | HG/T 20592 DN100 PN25 | / | 133 | / | 20 | / | / | 220 | 125 | BTG 80S F190190 |

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