

BEISIT®

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



TPP Fluid Connector
TPP流体快速连接器

TPP

流体快速连接器

TPP 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

- 钢珠锁紧&内部长导向结构，适用更大的机械应力环境。
- 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。
- Steel ball locking and internal long guiding structure is suitable for greater mechanical stress environment.
- 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

- 钢珠锁紧半自动连接，推入即可锁紧连接并密封，操作轻松，方便快捷。
- 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。
- 凸肩和滚花的长锁紧环更容易抓握和断开。
- Steel ball locking semi-automatic connection, push-in to lock the connection and seal, easy to operate, convenient and quick.
- Multiple color options for quick identification of different circuits.
- G external thread with O-ring makes installation more convenient and sealing easier.
- Long locking rings with convex shoulder and knurls for easier gripping and disconnecting.

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

- 航空航天、军工防务等领域 Aerospace, military defense and other fields
- 医疗设备 Medical equipment
- 数据中心、超级计算机 Data center, Supercomputer
- 核能、风电、光伏（储能、变流器）等新能源领域
Nuclear energy, wind power, photovoltaic(energy storage, converters) and other new energy fields
- 轨道交通、新能源汽车 Rail transit, New energy vehicles
- 工业 Industry

流体 Fluids

- 冷却液 Coolant
- 去离子水 Deionized water
- 水-乙二醇 Glycol Water
- 导热油 Heat transfer oils
- 酯类 Esters
- 煤油 Kerosene
- PAO

基础型号

补充选项, 后缀信息

TPP 05S G14F - 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 hightemperatures up to 200°C. 3. Resistance to mineral oils, synthetichydraulic 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 brakefluids - 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 elastomerwith the chemical resistance of PTFE. 2. Remarkable resistance to heat and mostchemical agents including inorganic andorganic 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 hightemperatures. 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 hightemperatures. 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 andrefrigerants.

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

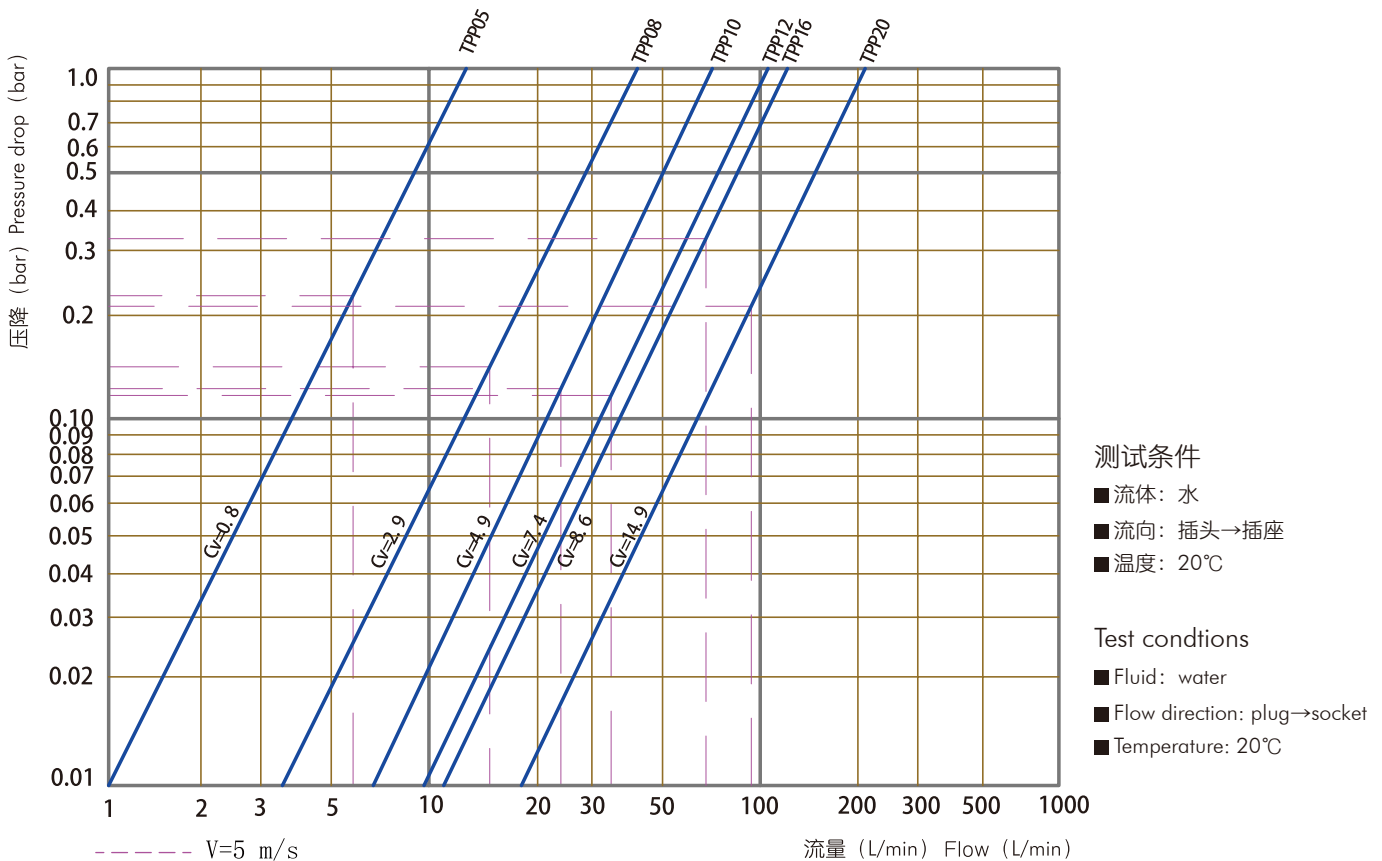
若需咨询，请随时联系我们的技术专家。
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普通型 Regular Type

产品型号 Product Model	TPP05	TPP08	TPP10	TPP12	TPP16	TPP20
额定工作压力 (bar) Working Pressure (bar)	40	20	20	20	20	20
Cv值 (Gal/min) CV (Gal/min)	0.8	2.9	4.9	7.4	8.6	14.9
额定工作流量 (L/Min) Working Flow (L/Min)	5.88	15.07	23.55	33.90	68.05	94.2
单次插拔最大泄露量 (ml) Leakage Per Disconnection (ml)	0.02	0.02	0.03	0.05	0.10	0.12

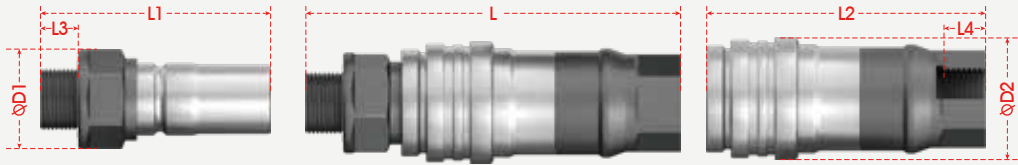
TPP流量曲线
TPP Flow Chart



→ TPP05

插头插座连接图
Plug and socket connection diagram

$L = L1 + L2 - X$
 $X = 21\text{mm}$



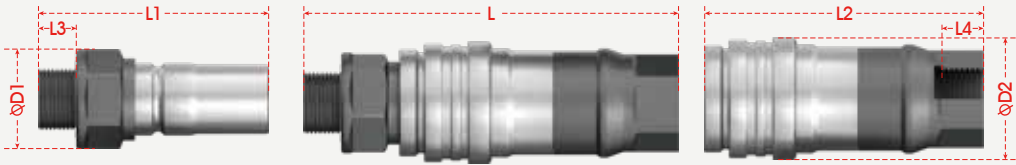
	Picture	End Fitting Type	L1	L2	L3	L4	D1	D2	Hex	Product model
插头		G1/4外螺纹	45	/	11	/	19	/	17	TPP 05P G14M
		G1/4内螺纹	49	/	12	/	19	/	17	TPP 05P G14F
插座		G1/4外螺纹	/	56.5	/	11	/	22	18	TPP 05S G14M
		G1/4内螺纹	/	55.5	/	12	/	22	17	TPP 05S G14F

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→ TPP08

插头插座连接图
Plug and socket connection diagram

$L = L1 + L2 - X$
 $X = 27.8\text{mm}$



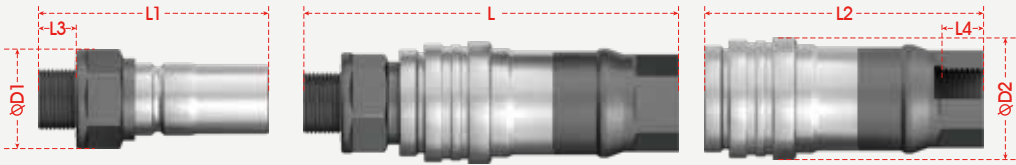
	Picture	End Fitting Type	L1	L2	L3	L4	D1	D2	Hex	Product model
插头		G3/8外螺纹	53.5	/	12	/	23.5	/	21	TPP 08P G38M
		G3/8内螺纹	57.5	/	13	/	23.5	/	21	TPP 08P G38F
插座		G3/8外螺纹	/	60.5	/	12	/	30	24	TPP 08S G38M
		G3/8内螺纹	/	64.5	/	13	/	30	24	TPP 08S G38F

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→ TPP10

插头插座连接图
Plug and socket connection diagram

$L = L1 + L2 - X$
 $X = 38.5\text{mm}$



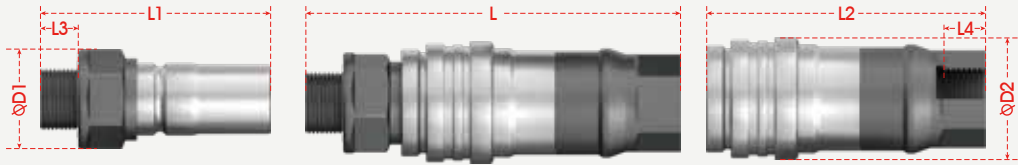
	Picture	End Fitting Type	L1	L2	L3	L4	D1	D2	Hex	Product model
插头		G1/2外螺纹	71	/	14	/	30	/	27	TPP 10P G12M
		G1/2内螺纹	76	/	15	/	30	/	27	TPP 10P G12F
插座		G1/2外螺纹	/	76	/	14	/	37.5	30	TPP 10S G12M
		G1/2内螺纹	/	81	/	15	/	37.5	30	TPP 10S G12F

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→ TPP12

插头插座连接图
Plug and socket connection diagram

$L = L1 + L2 - X$
 $X = 45.8\text{mm}$



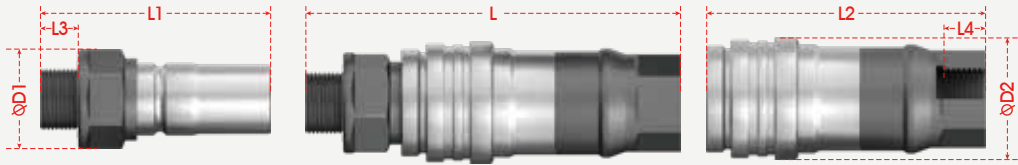
	Picture	End Fitting Type	L1	L2	L3	L4	D1	D2	Hex	Product model
插头		G1/2外螺纹	80	/	14	/	34	/	30	TPP 12P G12M
		G1/2内螺纹	85	/	15	/	34	/	30	TPP 12P G12F
插座		G1/2外螺纹	/	95	/	14	/	41.6	30	TPP 12S G12M
		G1/2内螺纹	/	100	/	15	/	41.6	30	TPP 12S G12F

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→ TPP16

插头插座连接图
Plug and socket connection diagram

$L = L1 + L2 - X$
 $X = 52.9\text{mm}$



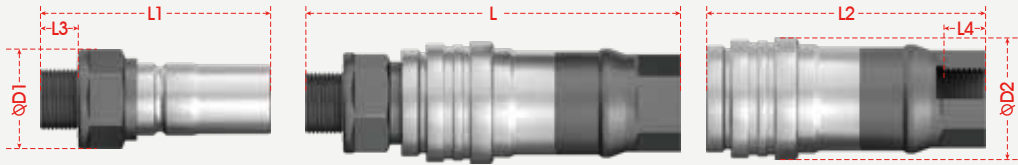
	Picture	End Fitting Type	L1	L2	L3	L4	D1	D2	Hex	Product model
插头		G3/4外螺纹	93.5	/	16	/	39	/	36	TPP 16P G34M
		G3/4内螺纹	97.5	/	17	/	39	/	36	TPP 16P G34F
插座		G3/4外螺纹	/	107	/	16	/	50	41	TPP 16S G34M
		G3/4内螺纹	/	119	/	17	/	50	41	TPP 16S G34F

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→ TPP20

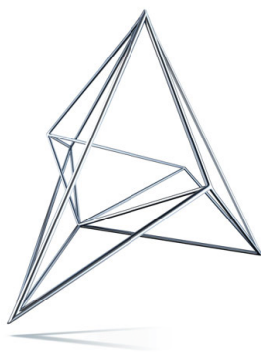
插头插座连接图
Plug and socket connection diagram

$L = L1 + L2 - X$
 $X = 55.4\text{mm}$



	Picture	End Fitting Type	L1	L2	L3	L4	D1	D2	Hex	Product model
插头		G1外螺纹	112.5	/	20	/	50.5	/	46	TPP 20P G01M
		G1内螺纹	118	/	21	/	50.5	/	46	TPP 20P G01F
插座		G1外螺纹	/	125.5	/	20	/	59.5	50	TPP 20S G01M
		G1内螺纹	/	141	/	21	/	59.5	50	TPP 20S G01F

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Symmetron

МОСКВА
Ленинградское ш., д. 69, к. 1
Тел.: +7 495 961-20-20
moscow@symmetron.ru

САНКТ-ПЕТЕРБУРГ
ул. Таллинская, д. 7
Тел.: +7 812 449-40-00
spb@symmetron.ru

НОВОСИБИРСК
ул. Блюхера, д. 716
Тел.: +7 383 361-34-24
sibir@symmetron.ru

www.symmetron.ru