



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



## BSL Fluid Connector

## Beisit factory Aeroview



做人，把人品做好。  
做企业，把产品做好。

董事长：

郑永



## A collection of various industrial and automotive connectors, including BEISIT components, arranged on a black surface. The image shows a wide variety of parts: multi-pin electrical connectors in white and black housings, some with red or blue pins; circular and rectangular metal and plastic connectors; a large grey BEISIT multi-pin connector with a digital display; several black and yellow plastic components; and various metal fittings and adapters. Two long, flexible black hoses with metal connectors are also visible. The components are neatly arranged, showcasing the range of products offered.

## Brand Definition



"I" stands for "Integrity"

"I" stands for "International"

"BEST": Best

Functions as an international company of high integrity whose mission is to provide customer with finest products and services



# 倍仕得

pronounced as "bei", means "more", gathering more talents; mastery of work comes from more diligence; developing with high efficiency.

pronounced as "shi", means "talents", a person with ability and integrity; Both enterprise and individual should have a bright future, indicating the idea of people-oriented.

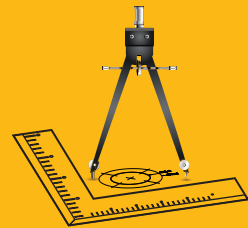
pronounced as "de", means "possess", to create and possess higher value.

Gather a large number of talents, and create a glorious future

# Quick Fluid Connector Purification Workshop

**BEISIT®**

Design and Manufacture of Precision Cutting Tools.



# Design and Manufacture of Precise Cutting Tools

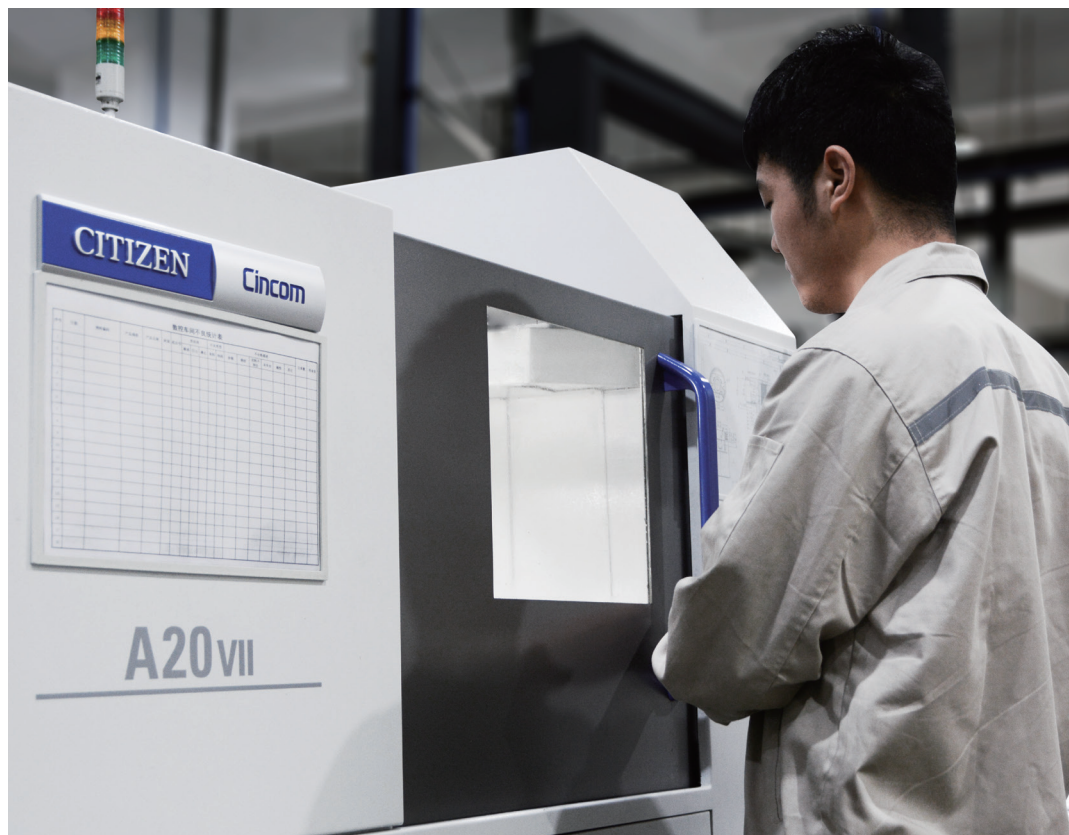


Design and Manufacture of Precision Cutting Tools

The machining accuracy can be accurate to 0.01mm

3days to provide metal samples

7days to deliver samples





# Company Certifications



# Informatization System



Efficient and fast Informatization system.





# Testing Center

**BEISIT**

The raw materials:metal material testing

The sealing:anti-aging test,hardness testing

The spring:fatigue test,spring force detection



High and Low Temperature Alternating Humid Heat Test Chamber



Flow resistance tester



Automatic digital display spring fatigue testing machine

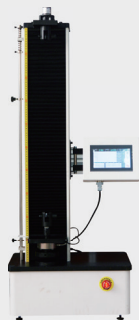




Machined parts: roughness detection, dimensional measurement

Surface treatment: film thickness detection, salt spray test

Product: withstand voltage test, sealing test, flow coefficient test, connection and separation force test, durability test, minimum burst pressure test, high temperature test, low temperature test, interchangeability test



Automatic digital display spring tension pressure testing machine



Neutral Salt Spray Tester

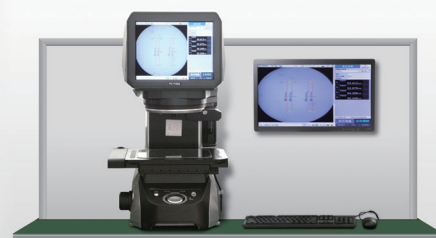
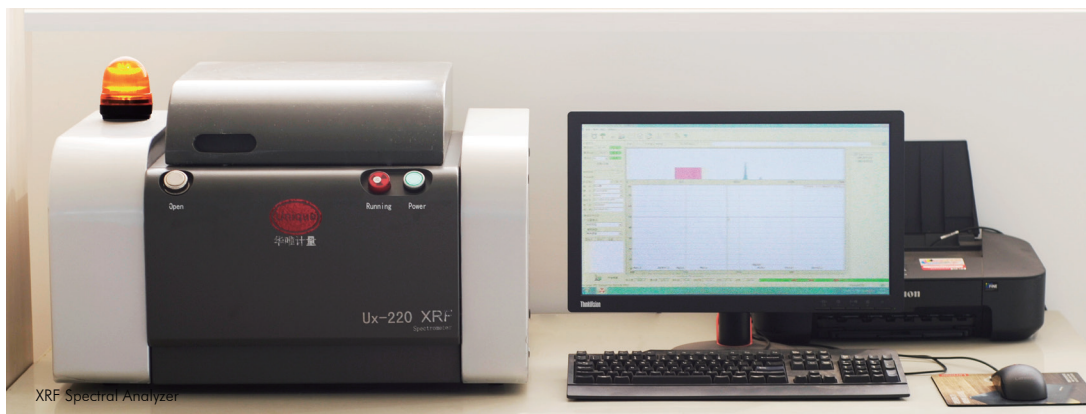


Image dimension measuring instrument



Air tightness tester



XRF Spectral Analyzer

## Corporate Culture



Mission: To supply most reliable connectors for global industry.

Customer Value: Revere clients; Never waver in determination to create unique value for our clients.

Quality Value: Quality as life, only once. Never waver in determination to produce 100% qualified products.

A background image of the Earth from space, showing the Americas. Overlaid on the globe are numerous glowing blue dashed lines that represent a global network or communication system, connecting various points across the continents.

**Linking with the World**  
**Connecting to the Future**

**BSL** BSL TYPE Fluid Connector**Safe & Environmental**

- 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.

**Stable & Reliable**

- 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.

**Convenient**

- Steel ball locking automatic connection, push-in to lock the connection and seal, also can be operated with one hand out of sight, simple and easy, convenient and quick.
- Multiple color options for quick identification of different circuits.
- G male thread with O-ring makes installation more convenient and sealing easier.
- Long locking rings with convex shoulder and knurls for easier gripping and disconnecting.

**Customized**

- 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.



**BSL** BSL TYPE Fluid Connector**Application Fields**

- Military defense, Aerospace and other fields
- Medical equipment
- Data center, Supercomputer
- Nuclear energy, wind power, photovoltaic(energy storage, converters) and other new energy fields
- Rail transit, New energy vehicles
- Industry

**Applicable Fluid Types**

- Coolant
- Deionized Water
- Glycol Water
- Heat transfer oils
- Esters
- Kerosene
- PAO
- .....

# Part Numbers

BSL 06S G14F - SS - NB - 90 - RD

Colour			
RD	Red	GN	Green
YW	Yellow	BK	Black
BU	Blue		

Angle	
00	Straight Through
90	Degree Elbow
45	Degree Elbow

Seals			
EP	Ethylene Propylene Rubber EPDM		
NB	Nitrile Rubber NBR	FF	Highly Fluorine Rubber FFKM
FM	Fluorocarbon Rubber FPM/FKM/Viton	CR	Neoprene CR
FV	Fluorosilicone Rubber FVMQ		

Material	
	Stainless steel 304 + Brass nickel plated
SA	Stainless steel 304
SS	Stainless steel 316L

Male and Female Threads	
F	Female Thread
M	Male Thread

G/R/N/J Thread Size			
18	1/8	32	1-1/2"
14	1/4	01	1"
38	3/8	02	2"
12	1/2	04	4"
34	3/4		

M Thread Size	
08	M8 Thread
12	M12 Thread
21	M21 Thread

H08	Connects with 08 inner diameter rubber hose
S10	Connects with 10 outer diameter stainless steel tube
B810	Connects with 8x10 brass tube
T812	Connects with 8x12 plastic tube
F3636	Flange hole 36x36

End Fitting Type			
G	G Thread	H	Hose
R	R Thread	S	Stainless Steel Tube
N	NPT Thread	B	Brass Tube
J	UNF thread JIC37 ° taper ISO8434	T	Plastic Tube
M	M Thread	F	Flange

Coupling Type	
S	Socket
P	Plug

Equivalent Diameter			
03	3mm	09	9mm
05	5mm	10	10mm
06	6mm	12	12mm
08	8mm	16	16mm
		20	20mm
		25	25mm
		50	50mm
		00	100mm

Category Name	
B	Automatic Connecting With Flat Face Seal
S	Without Locking Mechanism
T	Others
BBT	Bayonet Locking Mechanism
BTG	Tri-Curve Groove Locking Mechanism
BSL	Auto Steel Ball Locking Mechanism
SCB	Blind-Mate, Without Lock Mechanism
SDB	Coaxial Correction Function Blind-mate, Without Locking Mechanism
TPP	Semi-auto Steel Ball Locking Mechanism
TSF	Screw Locking Mechanism
TPB	Push-Button Locking Mechanism With Needle Valve

## Selection of sealing materials

Material	Code	Working temperature	
NBR	NB	-15 ~ + 100 °C	<ol style="list-style-type: none"> <li>1. General applications.</li> <li>2. High mechanical strength.</li> </ol>
FPM、FKM、Viton	FM	-10 ~ + 200 °C	<ol style="list-style-type: none"> <li>1. Good chemical resistance.</li> <li>2. Outstanding resistance to high temperatures up to 200 °C .</li> <li>3. Resistance to mineral oils, synthetic hydraulic oils, fuels, chemicals,hydrocarbons and coolants.</li> </ol>
EPDM	EP	-20 ~ + 150 °C	<ol style="list-style-type: none"> <li>1. Excellent resistance to high temperatures.</li> <li>2. Compatible with phosphate-based brakefluids - esters, hot and cold water, steam.</li> <li>3. Pay attention to the use of mineral oil in the components of the medium circuit</li> </ol>
FFKM	FF	0 ~ + 250 °C	<ol style="list-style-type: none"> <li>1. Combines the qualities of an elastomer with the chemical resistance of PTFE.</li> <li>2. Remarkable resistance to heat and most chemical agents including inorganic and organic acids.</li> <li>3. Coolants.</li> </ol>
FVMQ	FV	-45 ~ + 175 °C	<ol style="list-style-type: none"> <li>1. Max. working pressure: 50 bar.</li> <li>2. Good resistance to low and high temperatures.</li> <li>3. Resistance to mineral oils, fuels.</li> </ol>
PTFE	PT	-50 ~ + 200 °C	<ol style="list-style-type: none"> <li>1. Max. working pressure: 80 bar.</li> <li>2. Excellent chemical resistance.</li> <li>3. Very good resistance to low and high temperatures.</li> <li>4. Superior performance to elastomers.</li> </ol>
CR	CR	-40 ~ + 100 °C	Good resistance to ageing and refrigerant.

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

1. Fluid type    2. Work pressure    3. Working temperature    4. Salt and acid concentration of aqueous solution    5. Special usage conditions

If you need any inquiries, please feel free to contact our technical experts.  
Our experienced quick connector experts provide you with the most thoughtful service.

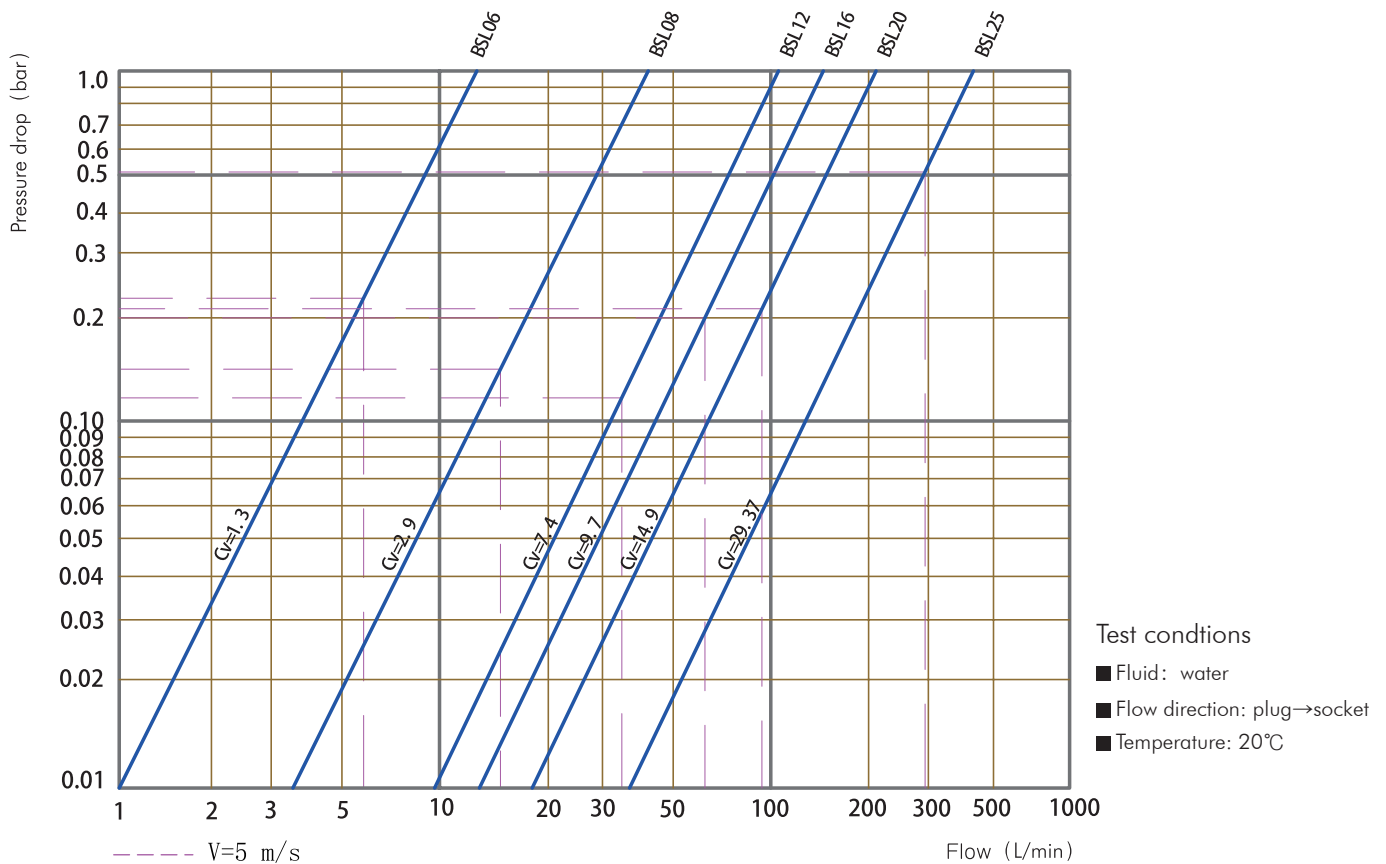


## Technical Parameter



Regular Type						
Product Model	BSL06	BSL08	BSL12	BSL16	BSL20	BSL25
Nominal Working Pressure (bar)	16	16	16	16	16	16
Cv (Gal/min)	1.3	2.9	7.4	9.7	14.9	29.4
Nominal Working Flow Rate (L/Min)	8.5	15.07	33.90	68.05	94.2	147.18
Leakage Per Disconnection (ml)	0.02	0.02	0.05	0.10	0.12	0.15

## BSL Pressure Drop/Flow Rate Chart

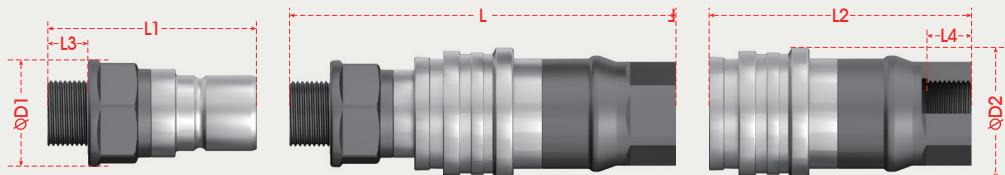


→ BSL06

Plug and socket connection diagram

$$L = L1 + L2 - X$$

$$X = 24.6\text{mm}$$



	Picture	End Fitting Type	L1	L2	L3	L4	D1	D2	Hex	Product model
Plug		G1/4 Male Thread	55	/	11	/	19	/	17	BSL 06P G14M
		G1/4 Female Thread	59	/	12	/	19	/	17	BSL 06P G14F
Socket		G1/4 Male Thread	/	63	/	11	/	24	19	BSL 06S G14M
		G1/4 Female Thread	/	60.5	/	12	/	24	19	BSL 06S G14F

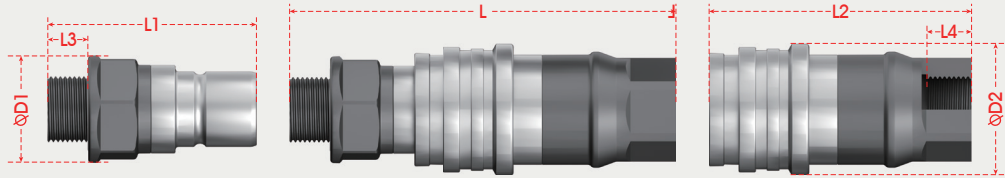
If you need to inquire about other end fitting, please feel free to contact our technical experts.  
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→ BSL08

Plug and socket connection diagram

$$L = L1 + L2 - X$$

$$X = 25.2\text{mm}$$



	Picture	End Fitting Type	L1	L2	L3	L4	D1	D2	Hex	Product model
Plug		G3/8 Male Thread	53.5	/	12	/	23.5	/	21	BSL 08P G38M
		G3/8 Female Thread	57.5	/	13	/	26.5	/	24	BSL 08P G38F
Socket		G3/8 Male Thread	/	55	/	12	/	26.5	24	BSL 08S G38M
		G3/8 Female Thread	/	59	/	13	/	26.5	24	BSL 08S G38F

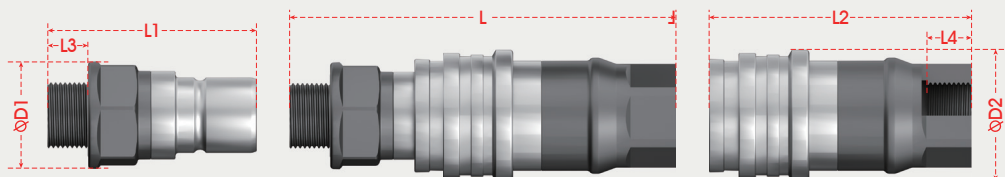
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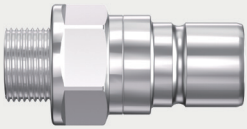
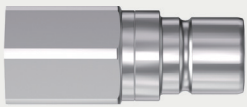

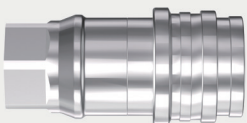
→ BSL12

Plug and socket connection diagram

$$L = L1 + L2 - X$$

$$X = 27\text{mm}$$



	Picture	End Fitting Type	L1	L2	L3	L4	D1	D2	Hex	Product model
Plug		G1/2 Male Thread	68	/	14	/	34	/	30	BSL 12P G12M
		G1/2 Female Thread	73	/	15	/	34	/	30	BSL 12P G12F
Socket		G1/2 Male Thread	/	84	/	14	/	42	30	BSL 12S G12M
		G1/2 Female Thread	/	89	/	15	/	42	30	BSL 12S G12F

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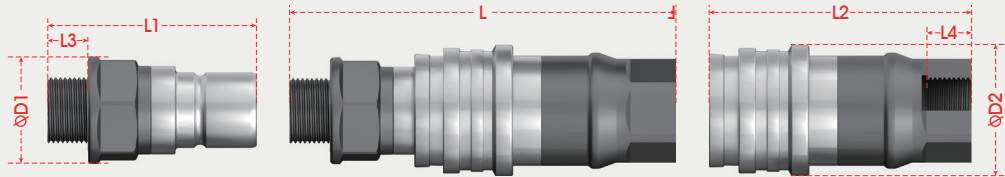


→ BSL16

Plug and socket connection diagram

$$L = L1 + L2 - X$$

$$X = 56.8\text{mm}$$



	Picture	End Fitting Type	L1	L2	L3	L4	D1	D2	Hex	Product model
Plug		G3/4 Male Thread	100	/	16	/	41.5	/	38	BSL 16P G34M
		G3/4 Female Thread	105	/	17	/	41.5	/	38	BSL 16P G34F
Socket		G3/4 Male Thread	/	125	/	16	/	53	38	BSL 16S G34M
		G3/4 Female Thread	/	130	/	17	/	53	36	BSL 16S G34F

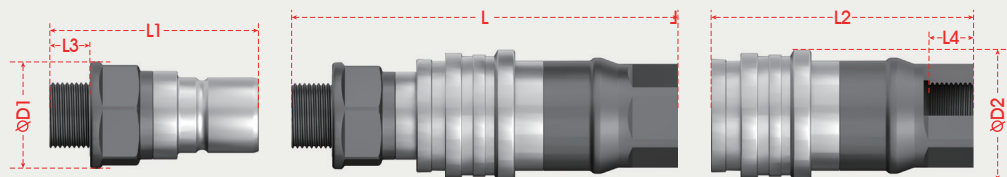
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→ BSL20

Plug and socket connection diagram

$$L = L1 + L2 - X$$

$$X = 60\text{mm}$$



	Picture	End Fitting Type	L1	L2	L3	L4	D1	D2	Hex	Product model
Plug		G1 Male Thread	113	/	20	/	/	/	55	BSL 20P G01M
		G1 Female Thread	114	/	21	/	/	/	55	BSL 20P G01F
Socket		G1 Male Thread	/	139	/	20	/	60	55	BSL 20S G01M
		G1 Female Thread	/	139	/	21	/	60	55	BSL 20S G01F

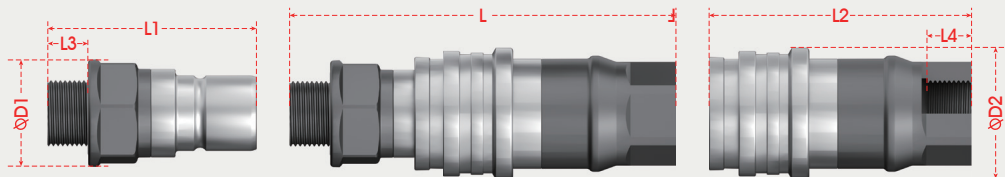
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→ BSL25

Plug and socket connection diagram

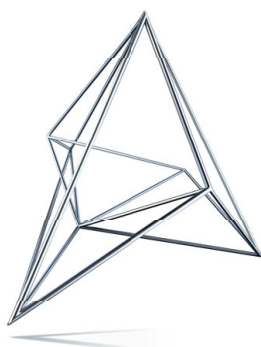
$$L = L1 + L2 - X$$

$$X = 67.5\text{mm}$$



	Picture	End Fitting Type	L1	L2	L3	L4	D1	D2	Hex	Product model
Plug		G1 Male Thread	122	/	20	/	/	/	55	BSL 25P G01M
		G1 Female Thread	123	/	21	/	/	/	55	BSL 25P G01F
Socket		G1 Male Thread	/	148	/	20	/	67	55	BSL 25S G01M
		G1 Female Thread	/	148	/	21	/	67	55	BSL 25S G01F

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