



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



TNP 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

Product Collection



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.

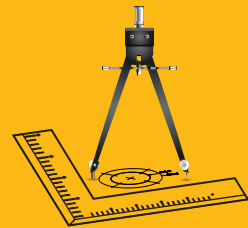
pronounced as "de", means "possess", to create and possess higher value.

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



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



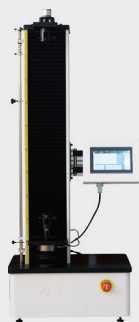
Automatic digital display spring fatigue testing machine



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

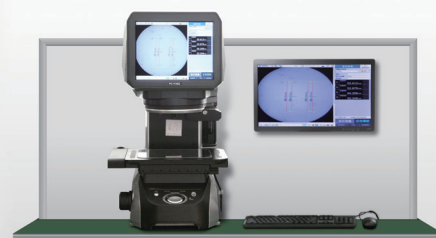
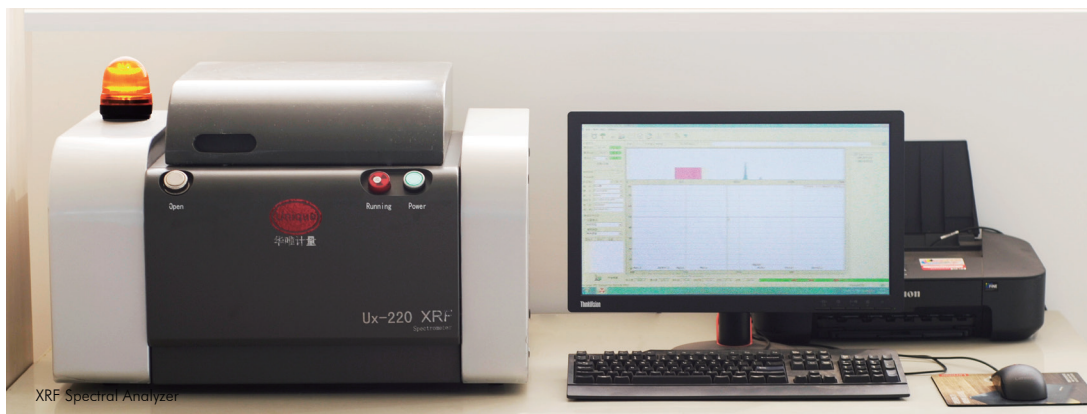


Image dimension measuring instrument



Air tightness tester



XRF Spectral Analyzer

Corporate Culture



Mission: To supply most reliable connectors for global industry.

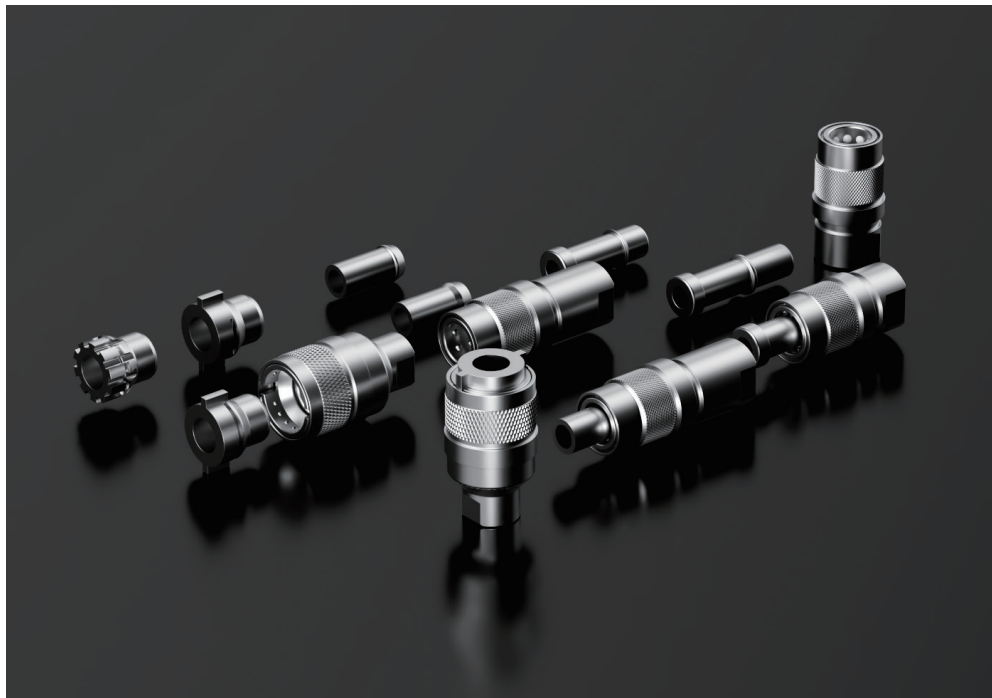
Customer Value: Revere clients; Never waver in determination to create unique value for our clients.

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 data connections, crisscrossing the planet.

Linking with the World
Connecting to the Future

TNP TNP Fluid Connector



Safe & Environmental

- TNP series products, the adoption of plastic ball locking, will not damage the tested parts.
- The TNP series, with optional valving, is available for disconnect-to-shutoff requirements.
- Connector is equipped with protective caps to prevent the sealing surface from being polluted during transportation.

Stable & Reliable

- Multi-row ball locking ensures stable locking and reliable sealing when connecting.
- TNP series products consist of stainless steel bodies and nickel-plated brass sleeves, which provide durability itself and protection for the tested parts.
- A variety of sealing material O-rings are available to meet the temperature requirements of different media and guarantees long term stable & reliable sealing performance.

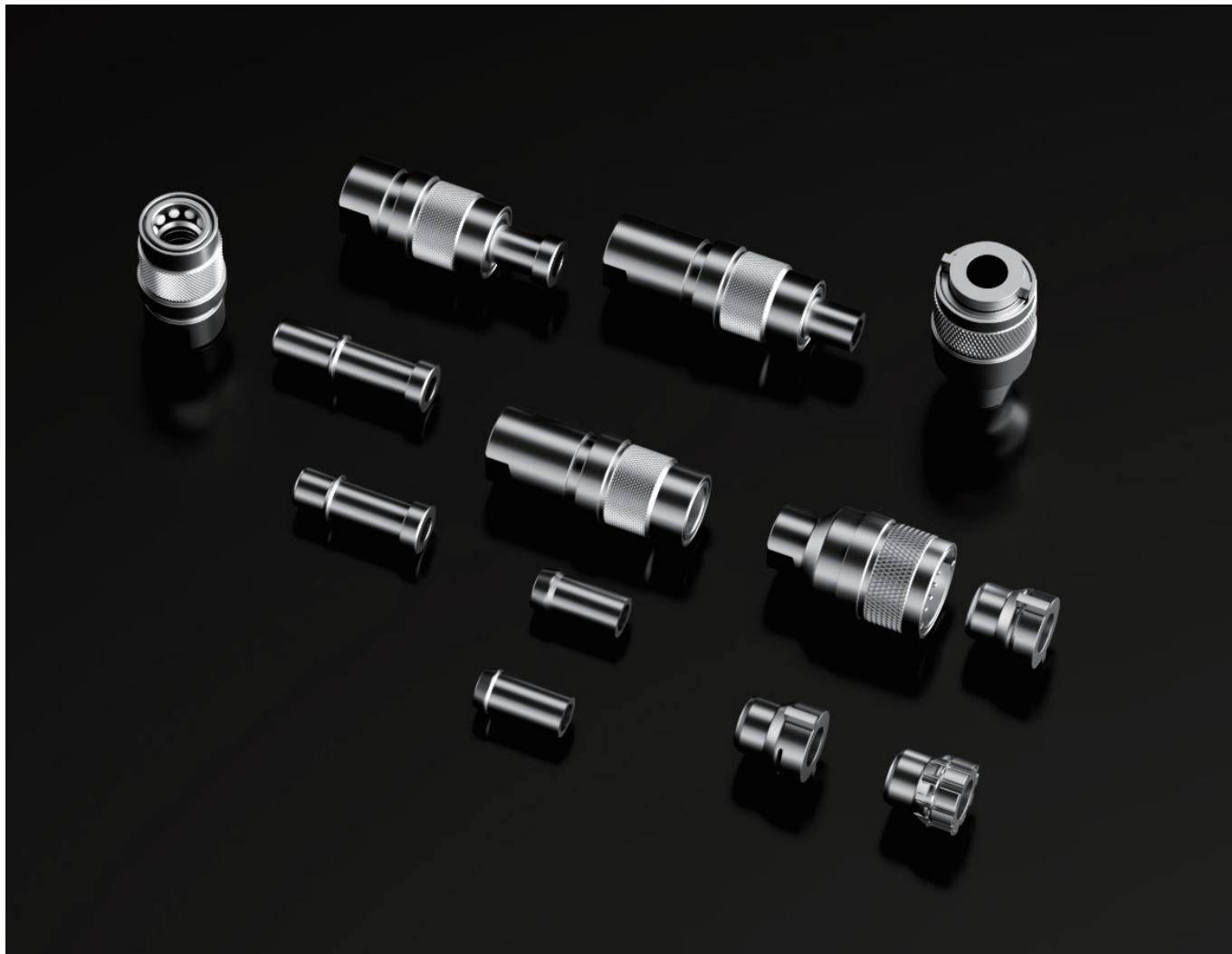
Convenient

- Ball locking semi-automatic connection, push-in to lock the connection and seal, easy to operate, convenient and quick.
- Each TNP product provides a wide range of tolerances, offering the possibility of adapting to a wide range of tested parts and reducing the hassle of changeover for customers.
- The TNP series can be fitted with a 90-degree adapter for easier handling.
- 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.

TNP TNP Fluid Connector



Application Fields

- New energy vehicle EIC system testing
- Traditional vehicle engine testing
- Refrigerant, Fuel Filling

Applicable Fluid Types

- Coolant
- Glycol Water
- Heat transfer oils
- Esters
- Kerosene
-

Part Numbers

TNP 16V G38F NW- BR - FV - 90

Angle
Straight through
90 Degree Elbow
45 Degree Elbow

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

Material
Stainless steel 304+Brass nickel plated
BR Brass With Nickel Plated
SA Stainless Steel 304

Type
NW NW Type
SAE SAE Type
MDC MDC Type

Male and Female Threads
F Female Thread
M Male Thread

G/R/N/J Thread Size		M Thread Size	
18	1/8	32	1-1/2"
14	1/4	01	1"
38	3/8		
12	1/2		
34	3/4		
		08	M8 Thread
		12	M12 Thread
		21	M21 Thread
		H08	Connects with 08 inner diameter rubber hose
		T812	Connects with 8x12 plastic tube

End fitting type
G G Thread
M M Thread
H Hose
T Plastic tube

Valved or not
V Valved
V-free Unvalved

Connector Size	
04	4mm
06	6mm
08	8mm
14	14mm
16	16mm
20	20mm

Category name
T Other
N Non metallic ball-locking
P Sleeved

Selection of sealing materials

Material	Code	Working temperature	
NBR	NB	-15 ~ + 100 °C	1. General applications. 2. High mechanical strength.
FPM、FKM、Viton	FM	-10 ~ + 200 °C	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.
EPDM	EP	-20 ~ + 150 °C	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
FFKM	FF	0 ~ + 250 °C	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.
FVMQ	FV	-45 ~ + 175 °C	1. Max. working pressure: 50 bar. 2. Good resistance to low and high temperatures. 3. Resistance to mineral oils, fuels.
PTFE	PT	-50 ~ + 200 °C	1. Max. working pressure: 80 bar. 2. Excellent chemical resistance. 3. Very good resistance to low and high temperatures. 4. Superior performance to elastomers.
CR	CR	-40 ~ + 100 °C	Good resistance to ageing and refrigerant.

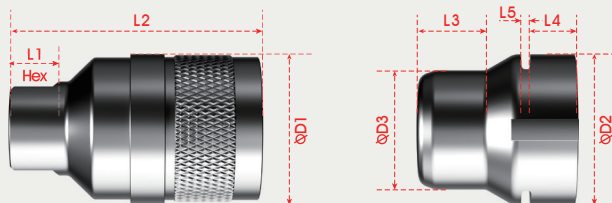
In order to choose the solution that best meets your application needs, it is recommended to provide us with the following accurate information:

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.

→ TNP 12-NW

Plug and socket connection diagram

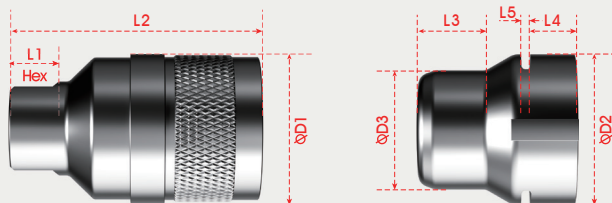


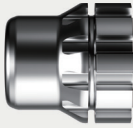
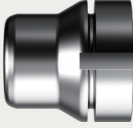
	Picture	End Fitting Type	L1	L2	L3	L4	L5	D1	D2	D3	Hex	Product model
Socket		G3/8 Female Thread	13	56	/	/	/	34	/	/	22	TNP 12 G38F-NW
Plug		/	/	/	14~24	>4	1.8	/	21.5 ^{+0.02} _{-0.02}	16.3 ^{-0.3} _{-0.3}	/	NW 12
		/	/	/	14~24	>4	1.8	/	21.5 ^{+0.02} _{-0.02}	16.3 ^{-0.3} _{-0.3}	/	NW 12
		/	/	/	14~24	>4	1.8	/	21.5 ^{+0.02} _{-0.02}	16.3 ^{-0.3} _{-0.3}	/	NW 12
		/	/	/	14~24	>4	1.8	/	21.5 ^{+0.02} _{-0.02}	16.3 ^{-0.3} _{-0.3}	/	NW 12
		/	/	/	14~24	>4	1.8	/	21.5 ^{+0.02} _{-0.02}	16.3 ^{-0.3} _{-0.3}	/	NW 12
		/	/	/	14~24	>4	1.8	/	21.5 ^{+0.02} _{-0.02}	16.3 ^{-0.3} _{-0.3}	/	NW 12

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→ TNP 14-NW

Plug and socket connection diagram

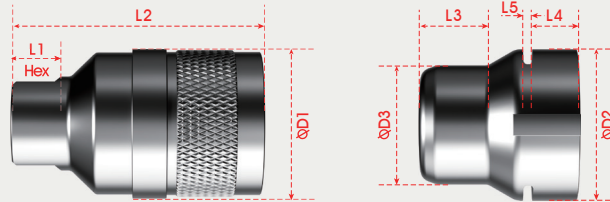


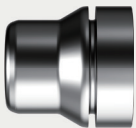
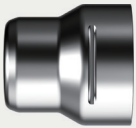
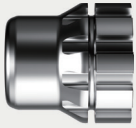
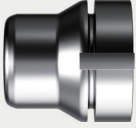
	Picture	End Fitting Type	L1	L2	L3	L4	L5	D1	D2	D3	Hex	Product model
Socket		G3/8 Female Thread	13	60	/	/	/	37	/	/	22	TNP 14 G38F-NW
Plug		/	/	/	14~24	>4	1.8	/	25.0 ^{+0.02} _{-0.02}	20.5 ^{-0.3} _{-0.3}	/	NW 14
		/	/	/	14~24	>4	1.8	/	25.0 ^{+0.02} _{-0.02}	20.5 ^{-0.3} _{-0.3}	/	NW 14
		/	/	/	14~24	>4	1.8	/	25.0 ^{+0.02} _{-0.02}	20.5 ^{-0.3} _{-0.3}	/	NW 14
		/	/	/	14~24	>4	1.8	/	25.0 ^{+0.02} _{-0.02}	20.5 ^{-0.3} _{-0.3}	/	NW 14
		/	/	/	14~24	>4	1.8	/	25.0 ^{+0.02} _{-0.02}	20.5 ^{-0.3} _{-0.3}	/	NW 14
		/	/	/	14~24	>4	1.8	/	25.0 ^{+0.02} _{-0.02}	20.5 ^{-0.3} _{-0.3}	/	NW 14

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→ TNP 16-NW

Plug and socket connection diagram

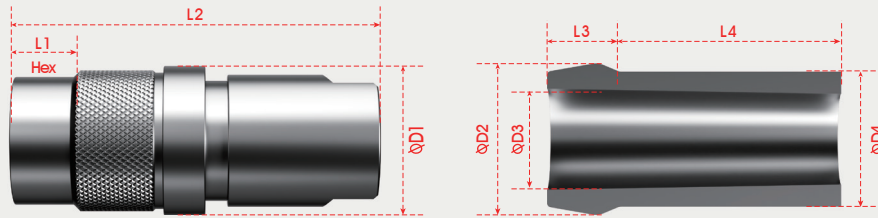


	Picture	End Fitting Type	L1	L2	L3	L4	L5	D1	D2	D3	Hex	Product model
Socket		G3/8 Female Thread	13	65.6	/	/	/	40	/	/	22	TNP 16 G38F-NW
Plug		/	/	/	14~24	>4	1.8	/	$28.3^{+0.02}_{-0.02}$	$22.3^{+0.0}_{-0.3}$	/	NW 16
		/	/	/	14~24	>4	1.8	/	$28.3^{+0.02}_{-0.02}$	$22.3^{+0.0}_{-0.3}$	/	NW 16
		/	/	/	14~24	>4	1.8	/	$28.3^{+0.02}_{-0.02}$	$22.3^{+0.0}_{-0.3}$	/	NW 16
		/	/	/	14~24	>4	1.8	/	$28.3^{+0.02}_{-0.02}$	$22.3^{+0.0}_{-0.3}$	/	NW 16
		/	/	/	14~24	>4	1.8	/	$28.3^{+0.02}_{-0.02}$	$22.3^{+0.0}_{-0.3}$	/	NW 16
		/	/	/	14~24	>4	1.8	/	$28.3^{+0.02}_{-0.02}$	$22.3^{+0.0}_{-0.3}$	/	NW 16

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→ TNP 16-MDC

Plug and socket connection diagram

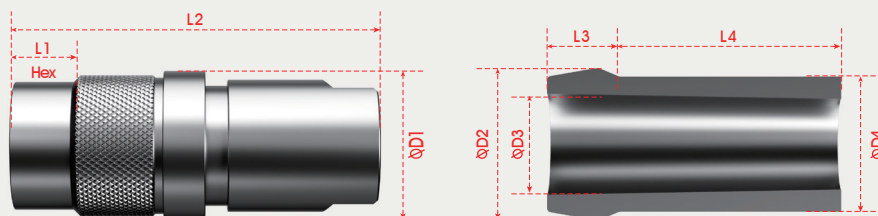


	Picture	End Fitting Type	L1	L2	L3	L4	D1	D2	D3	D4	Hex	Product model
Socket		G3/8 Female Thread	13	82	/	/	34	/	/	/	24	TNP 16 G38F-MDC
Plug		/	/	/	4~9	>16	/	18.1 ⁰ _{-1.0}	13.0 ^{+1.5} _{-1.5}	16.0 ^{+0.15} ₀	/	MDC 16
		/	/	/	4~9	>16	/	18.1 ⁰ _{-1.0}	13.0 ^{+1.5} _{-1.5}	16.0 ^{+0.15} ₀	/	MDC 16
		/	/	/	4~9	>16	/	18.1 ⁰ _{-1.0}	13.0 ^{+1.5} _{-1.5}	16.0 ^{+0.15} ₀	/	MDC 16

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→ TNP 20-MDC

Plug and socket connection diagram

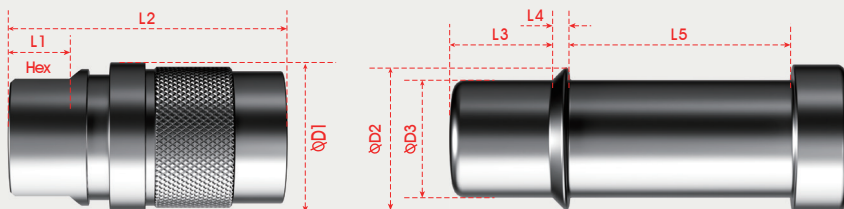


	Picture	End Fitting Type	L1	L2	L3	L4	D1	D2	D3	D4	Hex	Product model
Socket		G3/8 Female Thread	13	90	/	/	40	/	/	/	24	TNP 20 G38F-MDC
Plug		/	/	/	4~9	>16	/	22.4 ⁰ _{-1.0}	16.0 ^{+1.5} _{-1.5}	20.0 ^{+0.15} ₀	/	MDC 20
		/	/	/	4~9	>16	/	22.4 ⁰ _{-1.0}	16.0 ^{+1.5} _{-1.5}	20.0 ^{+0.15} ₀	/	MDC 20
		/	/	/	4~9	>16	/	22.4 ⁰ _{-1.0}	16.0 ^{+1.5} _{-1.5}	20.0 ^{+0.15} ₀	/	MDC 20

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→ TNP 06-SAE

Plug and socket connection diagram

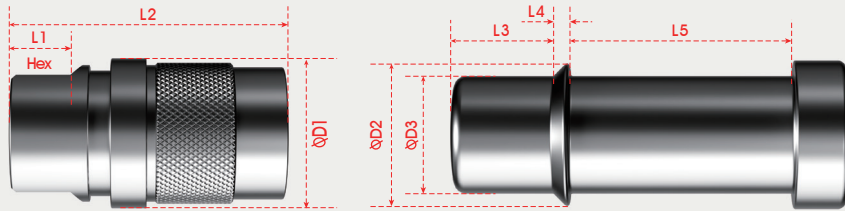


	Picture	End Fitting Type	L1	L2	L3	L4	L5	D1	D2	D3	Hex	Product model
Socket		G1/4 Female Thread	12	58	/	/	/	26	/	/	24	TNP 06 G14F-SAE
Plug		/	/	/	8~33	<3	>8	/	10.1 ⁰ ₋₁	6.5 ⁰ _{0.1}	/	SAE 06
		/	/	/	8~33	<3	>8	/	10.1 ⁰ ₋₁	6.5 ⁰ _{0.1}	/	SAE 06

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→ TNP 16-SAE

Plug and socket connection diagram

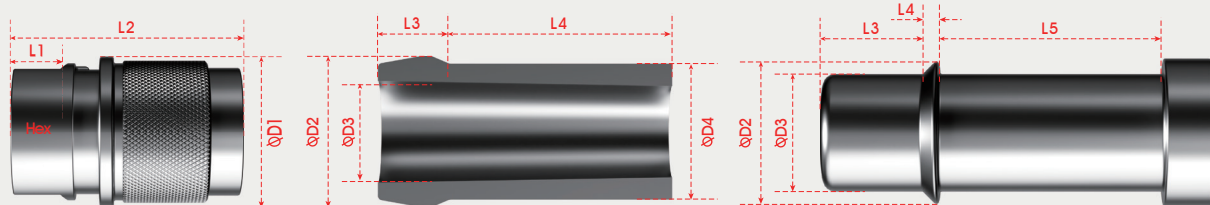


	Picture	End Fitting Type	L1	L2	L3	L4	L5	D1	D2	D3	Hex	Product model
Socket		G1/4 Female Thread	13	62.1	/	/	/	33	/	/	24	TNP 16 G14F-SAE
Plug		/	/	/	13~34	<3.5	>9	/	19.4 ⁰ ₋₁	16.0 ⁰ _{±3}	/	SAE 16
		/	/	/	13~34	<3.5	>9	/	19.4 ⁰ ₋₁	16.0 ⁰ _{±3}	/	SAE 16

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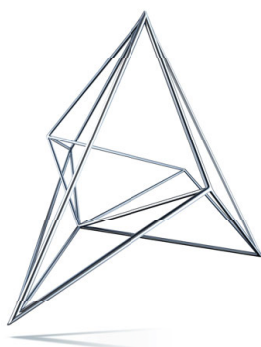
→ TNP 16-MDC-SAE

Plug and socket connection diagram



	Picture	End Fitting Type	L1	L2	L3	L4	L5	D1	D2	D3	D4	Hex	Product model
Socket		G3/8 Female Thread	13	48.5	/	/	/	33	/	/	/	24	TNP 16 G38F-MDC-SAE
Plug		/	/	/	8~9	>21	/	/	18.1 ⁰ _{-1.0}	/	16.0 ^{+0.15} ₋₀	/	MDC 16
		/	/	/	>25	<2	>8	/	19.4 ⁰ _{-1.0}	16.0 ⁰ _{-0.3}	/	/	SAE 16

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Symmetron

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