

Common Pressure Unit Conversion Table

| Unit   | 千克力<br>/厘米² | 兆帕        | 巴        | 千帕      | 毫巴      | 磅/英寸²    | 毫米水柱     | 毫米汞柱    | 英寸汞柱     | 标准大气     |
|--------|-------------|-----------|----------|---------|---------|----------|----------|---------|----------|----------|
|        | kg/cm²      | Mpa       | bar      | Kpa     | mbar    | psi      | mmH₂o    | mmHg    | inHg     | atm      |
| kg/cm² | 1           | 0.098066  | 0.980665 | 98.067  | 980.67  | 14.223   | 10000    | 735.559 | 28.964   | 0.96784  |
| Mpa    | 10.1972     | 1         | 10       | 1000    | 10000   | 145.04   | 101971   | 7500.61 | 295.354  | 9.8692   |
| bar    | 1.01972     | 0.1       | 1        | 100     | 1000    | 14.5038  | 10197.2  | 750.061 | 29.5354  | 0.98692  |
| Kpa    | 0.0102      | 0.001     | 0.01     | 1       | 10      | 0.145    | 101.97   | 7.50062 | 0.2954   | 0.009869 |
| mbar   | 0.00102     | 0.0001    | 0.001    | 0.1     | 1       | 0.0145   | 10.2     | 0.75    | 0.029543 | 0.000987 |
| psi    | 0.0703      | 0.006895  | 0.06895  | 6.895   | 68.95   | 1        | 703.07   | 51.715  | 2.03537  | 0.06805  |
| mmH₂O  | 0.0001      | 0.0000098 | 0.000098 | 0.0098  | 0.098   | 0.00142  | 1        | 0.07356 | 0.00289  | 0.000096 |
| mmHg   | 0.00136     | 0.000133  | 0.00133  | 0.1333  | 1.33    | 0.0193   | 13.5951  | 1       | 0.03936  | 0.00132  |
| inHg   | 0.03452     | 0.0034    | 0.034    | 3.385   | 33.85   | 0.491    | 346.02   | 25.4065 | 1        | 0.0334   |
| atm    | 1.033       | 0.1013    | 1.01325  | 101.327 | 1013.17 | 14.695   | 10416.66 | 760     | 29.94    | 1        |
| Pa     | 0.00001     | 0.000001  | 0.00001  | 0.001   | 0.01    | 0.000145 | 0.10197  | 0.0075  | 0.000295 | 0.00001  |

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快速密封连接器  
Quick Connectors  
Selection Guide







## 品牌简介 Brand Profile

With over a decade of experience in the test industry, GripSeal has specialized in the development and manufacture of quick connectors for a wide range of industries and applications, such as: automated production, compressed gas, process control, new energy automobile, air conditioning and refrigeration (HVAC-R), medical device manufacturing, aviation manufacturing, etc., where tens of thousands of manufacturers have chosen GripSeal quick connectors. GripSeal enhances productivity for users, which improves production output and thus boosts profitability.

GripSeal quick connectors are available in a wide range of products to offer solutions for the various types of tubes, bores, interfaces and threads. There are as many as nearly 1,000 standard models, allowing users to directly follow the selection manual and opt for the standard product that is appropriate for their needs. Meanwhile, GripSeal is equipped with a professional R&D team, which has the expertise to deliver customized solutions for all kinds of abnormal-shaped fittings.

Ranging from raw materials to finished product testing, GripSeal quick connectors have undergone strict control in all aspects, with superior quality, and have enjoyed a favorable reputation in the industry.

GripSeal quick connectors are distinguished from the industry's typically long lead times by the availability of 80% of standard products in the stock, which significantly enhances the stability of the users' production line operations.



## 品牌使命 Brand Mission



Excellent quality

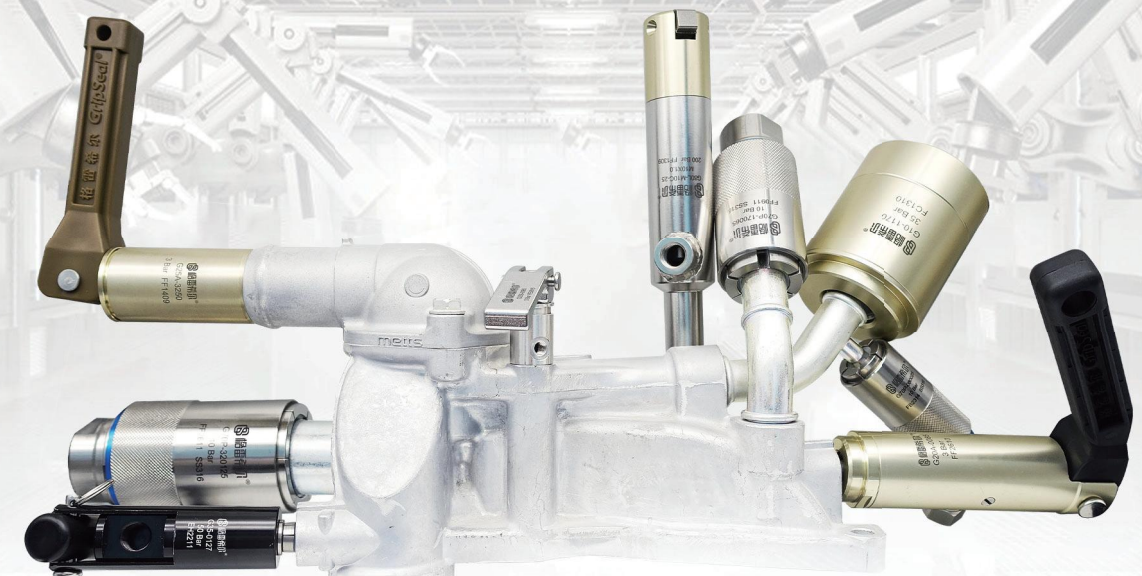


Wide range of models



Reasonable price

———— Leaving the sealing of all fittings no longer a challenge ————



One second connection

Instant sealing

# Your connection solution specialist



Model selection guide

| Pressure range<br><br>Recommend models<br><br>Tube types                                                    | 0-3 Bar | 0-8 Bar                | 0-10 Bar            | 0-20 Bar                  | 0-35 Bar               | 0-50 Bar      | 0-70 Bar | 0-200 Bar | 0-350 Bar    | 0-2500 Bar |
|-------------------------------------------------------------------------------------------------------------|---------|------------------------|---------------------|---------------------------|------------------------|---------------|----------|-----------|--------------|------------|
|                                                                                                             |         |                        |                     |                           |                        |               |          |           |              |            |
| External thread tube<br>   |         | G10/<br>G10Pro         |                     | G60/G85<br>(Water heater) |                        | G60           |          | G85       | G85H<br>G60C | G60UHP     |
| Internal thread tube<br>   | G25A    | G15/<br>G15Pro         |                     |                           |                        | G80-S<br>G80N |          | G80       | G80H<br>G65  |            |
| Tube -outer diameter<br>   | G20A    |                        |                     |                           | G10/<br>G10Pro<br>G10D | G30           | G30A     |           |              |            |
| Tube- inner diameter<br> | G25A    | G15/<br>G15Pro<br>G15K |                     | G35<br>(large tube)       |                        | G35           |          |           |              |            |
| Beaded tube<br>          | G25A    | G15/<br>G15Pro         | G70P<br>G70<br>G35C | G35<br>(large tube)       | G10/<br>G10Pro         | G35           |          |           |              |            |
| Expanded tube<br>        |         | G15/<br>G15Pro         |                     |                           | G10/<br>G10Pro         |               | G70K     |           |              |            |
| Barbed tube<br>          | G25A    | G15/<br>G15Pro         | G70                 |                           | G10/<br>G10Pro         | G35           |          |           |              |            |
| Fuel rail tube<br>       | G20A    | G15/<br>G15Pro         |                     |                           | G10/<br>G10Pro         | G70J          |          |           |              |            |
| Groove tube<br>          | G25A    | G15/<br>G15Pro         | G70<br>G70P         |                           | G10/<br>G10Pro         | G35           |          |           |              |            |
| Flange tube<br>          |         |                        |                     | G72                       |                        |               |          |           |              |            |

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GripSeal Quick Connectors Application Fields



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Automobile industry



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Automation industry



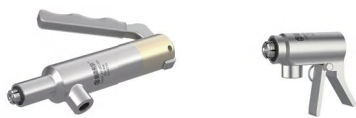
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Instrumentation industry

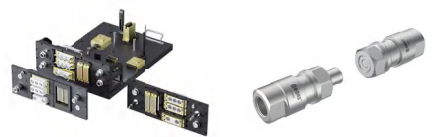


GripSeal Quick Connectors Series

|                                                       |                                                                                       |    |
|-------------------------------------------------------|---------------------------------------------------------------------------------------|----|
| Connectors for external tubes                         |     | 19 |
| G10 Series<br>G10 PRO Series<br>G10D Series           |                                                                                       |    |
| Connectors for internal tubes                         |     | 31 |
| G15 Series<br>G15 PRO Series<br>G15K Series           |                                                                                       |    |
| Low pressure explosion-proof valve connectors         |     | 42 |
| G20A Series<br>G20F Series                            |                                                                                       |    |
| Internal expansion connectors                         |    | 49 |
| G25A Series<br>G25P Series<br>G25F Series             |                                                                                       |    |
| High pressure external tube connectors                |  | 56 |
| G30 Series                                            |                                                                                       |    |
| High pressure + low pressure internal tube connectors |   | 60 |
| G35 Series<br>G35C Series<br>G35N Series              |                                                                                       |    |
| External thread connectors                            |   | 71 |
| G60 Series<br>G60C Series                             |                                                                                       |    |
| Straight-through internal thread connectors           |  | 76 |
| G65 Series                                            |                                                                                       |    |

|                                                              |                                                                                      |     |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------|-----|
| Special-shaped tube + fuel rail + non-destructive connectors |   | 81  |
| G70 Series<br>G70P Series                                    |                                                                                      |     |
| Flange tube connectors                                       |   | 98  |
| G72 Series<br>G72R Series                                    |                                                                                      |     |
| Internal thread + miniature internal thread connectors       |   | 106 |
| G80 Series<br>G80N Series                                    |                                                                                      |     |
| External thread connectors                                   |   | 115 |
| G85 Series                                                   |                                                                                      |     |
| Lever connectors                                             |  | 120 |
| G90 Series<br>G90S Series                                    |                                                                                      |     |

GripSeal docking panel assembly + male/female connector

|                                                |                                                                                       |     |
|------------------------------------------------|---------------------------------------------------------------------------------------|-----|
| Docking panel assembly + male/female connector |  | 127 |
|------------------------------------------------|---------------------------------------------------------------------------------------|-----|



GripSeal | Application in the auto industry

For engine, VCU and pressure test  
SUV | Heavy vehicle | Agricultural vehicles | RV | Household vehicle



**Engine**  
(1) Engine assembly test  
(2) Hot test  
(3) Cold test



**Turbo**  
Leak test



**Transmission system**  
(1) Transmission assembly test  
(2) Transmission hot test



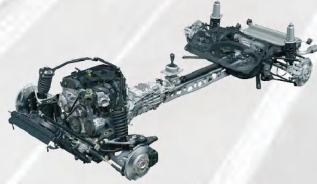
**Exhaust system**  
(1) Manifold  
(2) Automobile catalytic converter  
(3) Car muffler



**Engine fuel system**  
(1) Leak test of fuel pump  
(2) Leak test of common rail system  
(3) Helium test



**AC system**  
(1) Condenser  
(2) Compressor  
(3) Process pipe / manifold



**Chassis system**  
(1) Axle housing  
(2) Shock absorber



**Braking system**  
(1) Brake caliper  
(2) Brake pump  
(3) Brake hose and assembly

Recommended solution:



G80 Series



G70 Series



G25A Series



GripSeal | Application in the new energy vehicle industry

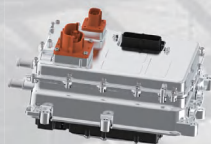
For leak test aging test of battery pack, electric motor, motor control box and charger system  
New Energy Bus| New energy car | New energy SUV



Wiper system  
(1) Water tank  
(2) Shower pipe

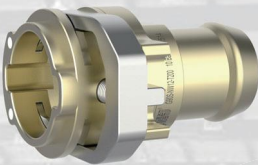


Battery pack test  
(1) Pack house leak test  
(2) Pack cooling system  
(3) Battery unit helium test

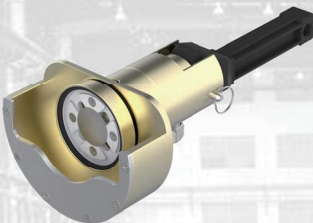


Control unit  
(1) Leak test, aging test of controller shell  
(2) Leak test of cooling system  
(3) Aging test

Recommended solution:



G90S Series



G20F Series



G25F electrical connector



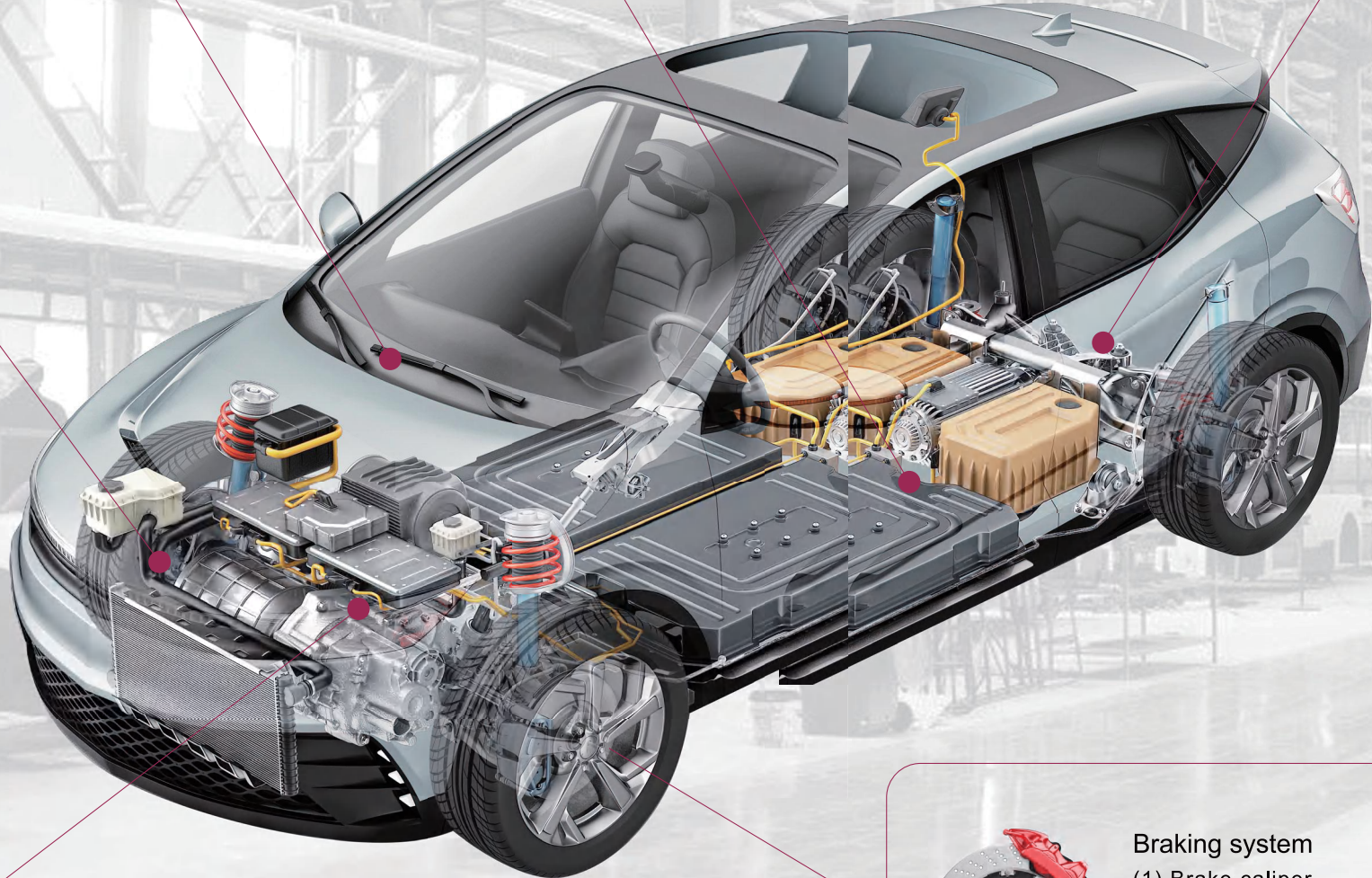
Air conditioner  
(1) Leak test of condenser  
(2) System test  
(3) Running test of compressor



Electric motor  
(1) Leak test of motor shell  
(2) Leak test of cooling tube  
(3) Connector of charge port



Braking system  
(1) Brake caliper  
(2) Brake pump  
(3) Brake hose and assembly





GripSeal | Application in the HVAC

For leak test of commercial air conditioner, compressor, heat exchanger, helium test and charge  
Refrigeration unit | Compressor | Outdoor unit | Integrated air conditioner



Fan coil  
(1) Water dunk test  
(2) Helium test



Air condition compressor  
(1) Leak test  
(2) Helium test

Recommended solution:



G70K Series



G80 Series



G35 Series



Large OD copper tube  
Above 3Mpa pressure test



Helium test  
Recovery of Helium



Condenser/Radiator  
(1) Pressure test of copper tube  
(2) Water dunk test



Outdoor AC unit  
(1) Vacuum  
(2) Charge coolant  
(3) Pressure test

HVAC



GripSeal | Application in water heater

For the running tests of wall-hanging stove, instant water heater, gas water heater, storage water heater, and Leak test during assembly  
Wall-hanging stove| Instant water heater | Gas water heater| Storage water heater



Gas water heater  
(1) Water dunk test  
(2) Running test



Storage water heater  
(1) Water dunk test



Heat exchanger  
(1) Water dunk test  
(2) Running test



Water faucet  
(1) Water dunk test



Water heater exchanger  
(1) Water dunk test



Smart toilet seat  
(1) Running test

Recommended solution:



G60 Series



G85 Series



G72 Series



GripSeal | Application in automation

Used for automatic connection, plugging hole, straight pipe, threaded hole, new energy electrical charge port, convenient for clamping, and Leak test  
Automobile assembly | Automobile spare parts | Home appliance assembly automation | HVAC automated test



Automatic hole  
connecting &sealing



Automatic thread  
hole sealing



Automatic cooling tube  
connecting &sealing



Automatic hose  
connecting & sealing



Automatic tube  
connecting & sealing

Recommended solution:



G10 PRO



G10 Series



G15 Series



GripSeal | Application in calibration

For pressure & Leak testing in gauge, pressure sensor, transmitter, and pressure manifold  
Pressure gauge | Transmitter | Pressure sensor | Pressure manifold



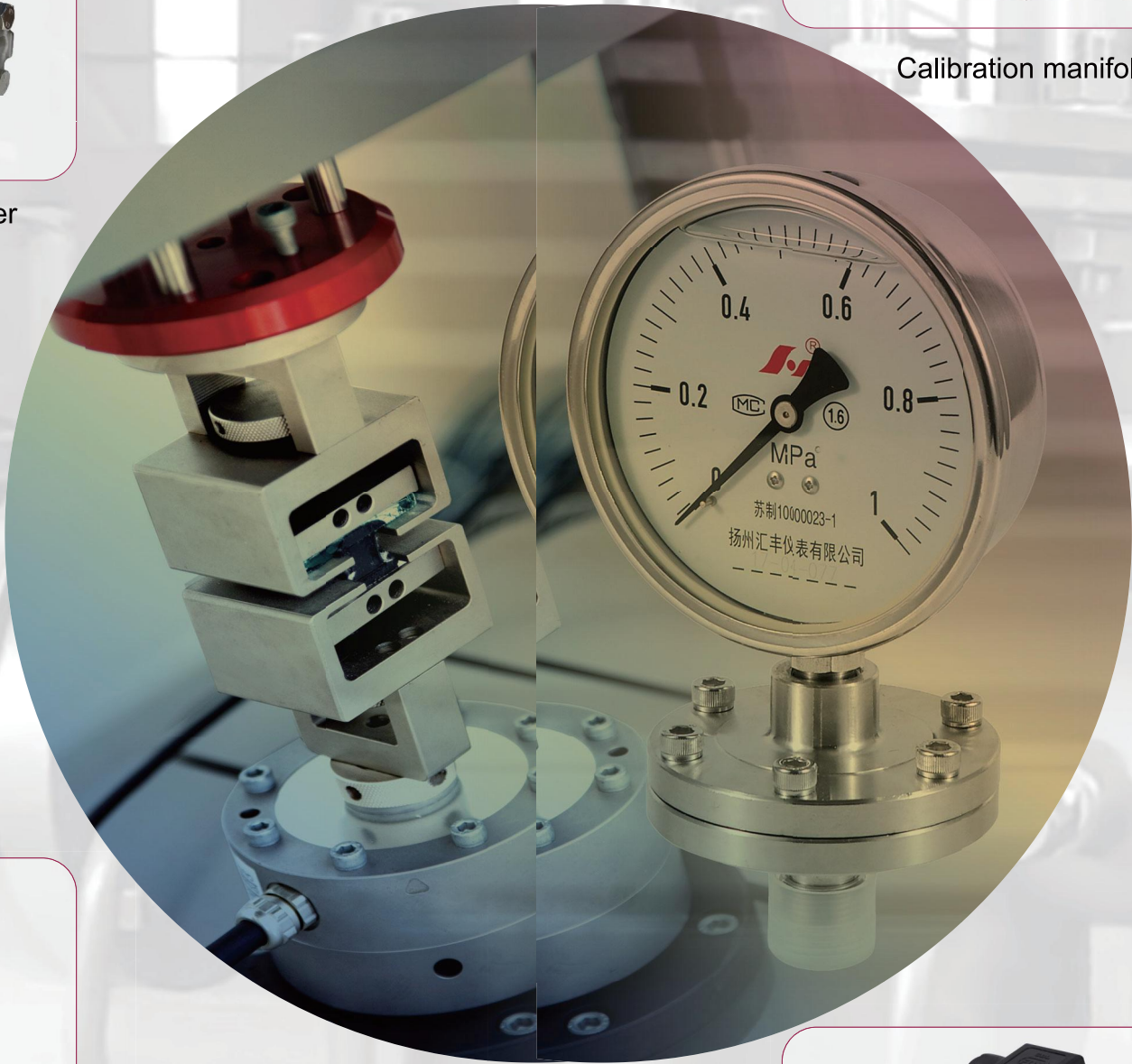
Transmitter



Calibration manifold



Gauge



Pressure switch



Pressure sensor

Recommended solution:



G60C Series



G80 Series



G85 Series



# G10 Connectors for external tubes

One-stop connection solution

Easy to replace | Automatic operation | Full range of models | Quick operation | Diversified seal materials | External seal

The G10 series pneumatic quick seal connector utilizes air pressure to inflate the seal and create an internal airtight connection with virtually any type of tube, which is ideal for high volume automated production testing.

## Fully automated external connection solutions



- \* Reducing overall manufacturing costs through more efficient testing
- \* Maximizing throughput capabilities through highly integrated automated testing
- \* Eliminating waste arising from failed tests
- \* Improving the stability throughout the testing process

## Features of G10 series quick connectors

### 1. Pneumatic actuated

Air can be injected through the rear pilot hole to push the built-in piston and compress the seal to achieve tight sealing

### 2. Automatic operation

Through the two mounting holes, the connector can be fixed to any actuator, realizing automatic operation with accuracy and reliability.

### 3. Test port

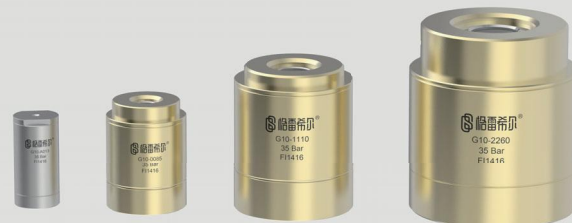
The straight-through design does not affect the flow. The G thread test port complies with the national standards

### 4. Damage-free connection

The seal is clamped without causing any damage to the surface of the test piece.

G10 series quick connectors are available in multiple body sizes (BSs), ranging from A to 3, offering a sealing range of 0.8mm to 50mm.

### Body sizes

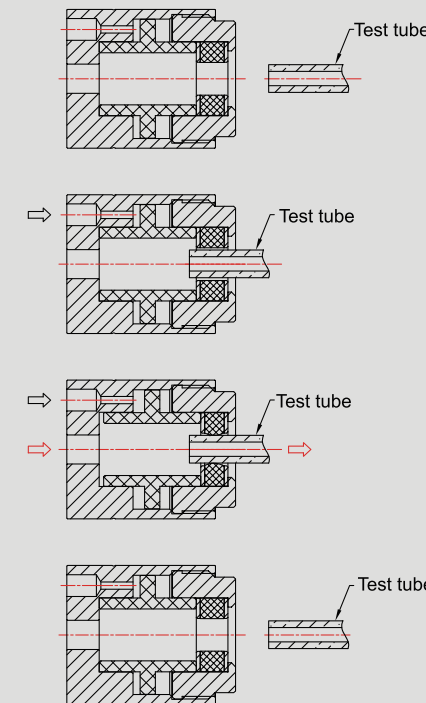


# G10 Connectors for external tubes

One-stop connection solution

Easy to replace | Automatic operation | Full range of models | Quick operation | Diversified seal materials | External seal

## Enable easier and reliable connections



### Step 1:

Insert the test tube into test port of the G10 series, and secure the test tube and connector.

### Step 2:

Introduce pilot pressure to pilot port. The seal is squeezed, creating expansion, which in turn clings to outer wall of test tube. In result, a leak tight seal is formed.

### Step 3:

- Filling the test port with test medium upon the formation of the seal (such as compressed air, test fluid, etc.)
- After the test is completed, release the inner test pressure to atmospheric pressure, then remove the pilot pressure, the seal is no longer be squeezed, the seal connection release the test tube.

### Step 4:

Once the above operations are completed, the test tube can be removed from the connector.

## G10 quick connectors





# G10

## Connectors for external tubes

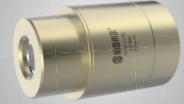
One-stop connection solution

Easy to replace | Automatic operation | Full range of models | Quick operation | Diversified seal materials | External seal

### Advantages of G10 quick connectors



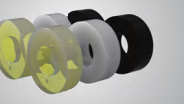
Pneumatic actuated:  
Reliable sealing & stable operation



Flexible customization:  
Extended shaft to avoid space collisions



Quick seals replacement:  
Simple maintenance & extended service life

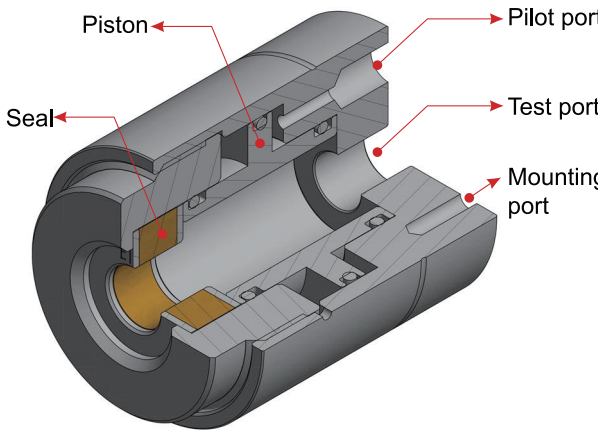


Seals materials:  
Different materials to meet specific customer needs



Automatic operation:  
Higher efficiency & more consistent test results

### Specifications of G10 quick connectors



|                        |                                          |
|------------------------|------------------------------------------|
| Max operation pressure | From Vacuum to 35 Bar                    |
| Sealing range          | 0.8mm - 80mm                             |
| Minimize insert depth  | BS0, BS1: 15mm<br>BS2, BS3: 30mm         |
| Termination port       | 1/8"BSPP, 1/4"BSPP, 1/2"BSPP thread hole |
| Material of main body  | Aluminum alloy or stainless steel        |
| Main seal              | Neoprene/silicone                        |
| Internal seal          | Buna-N                                   |
| Pilot pressure         | 4-6 Bar                                  |
| Operation temperature  | -20°C - 120°C                            |

The G10 series creates a leak-free external connection for a variety of fittings by applying the pneumatic actuated piston to compress the internal sealing ring. G10 connectors are ideal for Leak testing and functional testing

Test on cooling tube  
Turbo  
Radiator  
Plastic port  
Fuel pump



Charcoal canister



Medical catheters



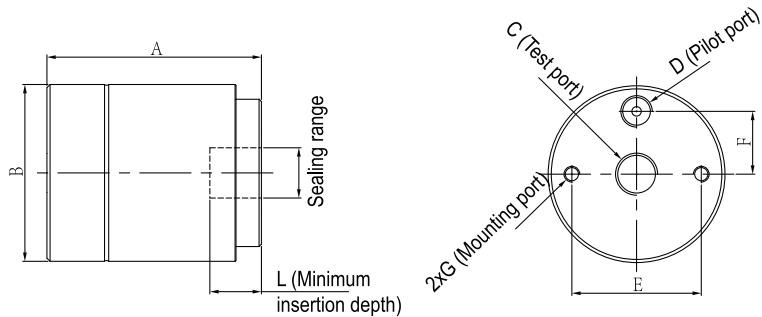
Motor controller

# G10

## Connectors for external tubes

One-stop connection solution

Easy to replace | Automatic operation | Full range of models | Quick operation | Diversified seal materials | External seal



### G10 specification sheet (Aluminum alloy version)

| Part Number | Sealing Range | Dim   | Dim B | Dim      | Dim      | Dim  | Dim F | Dim G | Dim L | Main Seals Package** |
|-------------|---------------|-------|-------|----------|----------|------|-------|-------|-------|----------------------|
| G10-0007D   | 0.8 - 1.3     | 51.4  | 37.9  | 1/8"BSPP | M5       | 27.6 | 13.8  | M5    | 15    | SG100007D            |
| G10-0013D   | 1.3 - 2.0     |       |       |          |          |      |       |       |       | SG100013D            |
| G10-0020D   | 2.0 - 3.3     |       |       |          |          |      |       |       |       | SG100020D            |
| G10-0025    | 2.5 - 4.5     |       |       |          |          |      |       |       |       | SG100025             |
| G10-0045    | 4.5 - 6.5     |       |       |          |          |      |       |       |       | SG100045             |
| G10-0065    | 6.5 - 8.5     |       |       |          |          |      |       |       |       | SG100065             |
| G10-0075    | 7.5 - 9.5     | 68.4  | 56.3  | 1/4"BSPP | 1/8"BSPP | 41.2 | 20    | M5    | 15    | SG100075             |
| G10-0085    | 8.5 - 10.5    |       |       |          |          |      |       |       |       | SG100085             |
| G10-0095    | 9.5 - 11.5    |       |       |          |          |      |       |       |       | SG100095             |
| G10-0105    | 10.5 - 13.0   |       |       |          |          |      |       |       |       | SG100105             |
| G10-1110    | 11.0 - 13.0   |       |       |          |          |      |       |       |       | SG101110             |
| G10-1130    | 13.0 - 15.0   |       |       |          |          |      |       |       |       | SG101130             |
| G10-1150    | 15.0 - 17.0   | 88.7  | 79    | 1/2"BSPP | 1/8"BSPP | 63.5 | 31.7  | M6    | 30    | SG101150             |
| G10-1160    | 16.0 - 18.0   |       |       |          |          |      |       |       |       | SG101160             |
| G10-1170    | 17.0 - 19.0   |       |       |          |          |      |       |       |       | SG101170             |
| G10-1180    | 18.0 - 20.0   |       |       |          |          |      |       |       |       | SG101180             |
| G10-1190    | 19.0 - 21.0   |       |       |          |          |      |       |       |       | SG101190             |
| G10-2200    | 20.0 - 22.0   | 113.5 | 107.4 | 1"BSPP   | 1/8"BSPP | 82.6 | 41.3  | M6    | 30    | SG102200             |
| G10-2220    | 22.0 - 24.0   |       |       |          |          |      |       |       |       | SG102220             |
| G10-2240    | 24.0 - 26.0   |       |       |          |          |      |       |       |       | SG102240             |
| G10-2260    | 26.0 - 28.0   |       |       |          |          |      |       |       |       | SG102260             |
| G10-2280    | 28.0 - 30.0   |       |       |          |          |      |       |       |       | SG102280             |
| G10-2300    | 30.0 - 32.0   |       |       |          |          |      |       |       |       | SG102300             |
| G10-2320    | 32.0 - 34.0   | 113.5 | 107.4 | 1"BSPP   | 1/8"BSPP | 82.6 | 41.3  | M6    | 30    | SG102320             |
| G10-2340    | 34.0 - 36.0   |       |       |          |          |      |       |       |       | SG102340             |
| G10-2360    | 36.0 - 38.0   |       |       |          |          |      |       |       |       | SG102360             |
| G10-3380    | 38.0 - 41.0   |       |       |          |          |      |       |       |       | SG103380             |
| G10-3410    | 41.0 - 44.0   | 113.5 | 107.4 | 1"BSPP   | 1/8"BSPP | 82.6 | 41.3  | M6    | 30    | SG103410             |
| G10-3440    | 44.0 - 47.0   |       |       |          |          |      |       |       |       | SG103440             |
| G10-3470    | 47.0 - 50.0   |       |       |          |          |      |       |       |       | SG103470             |

- Nonstandard models of G10 quick connectors include: larger outer diameter dimensions, shaft extension, shorter sealing length, etc.
  - Customized models of G10 quick connectors include: sealing various threads, non-circular shapes, with snap mechanism, multiple connector combinations, etc.
- Please contact your local distributor or GripSeal sales representative for more information.

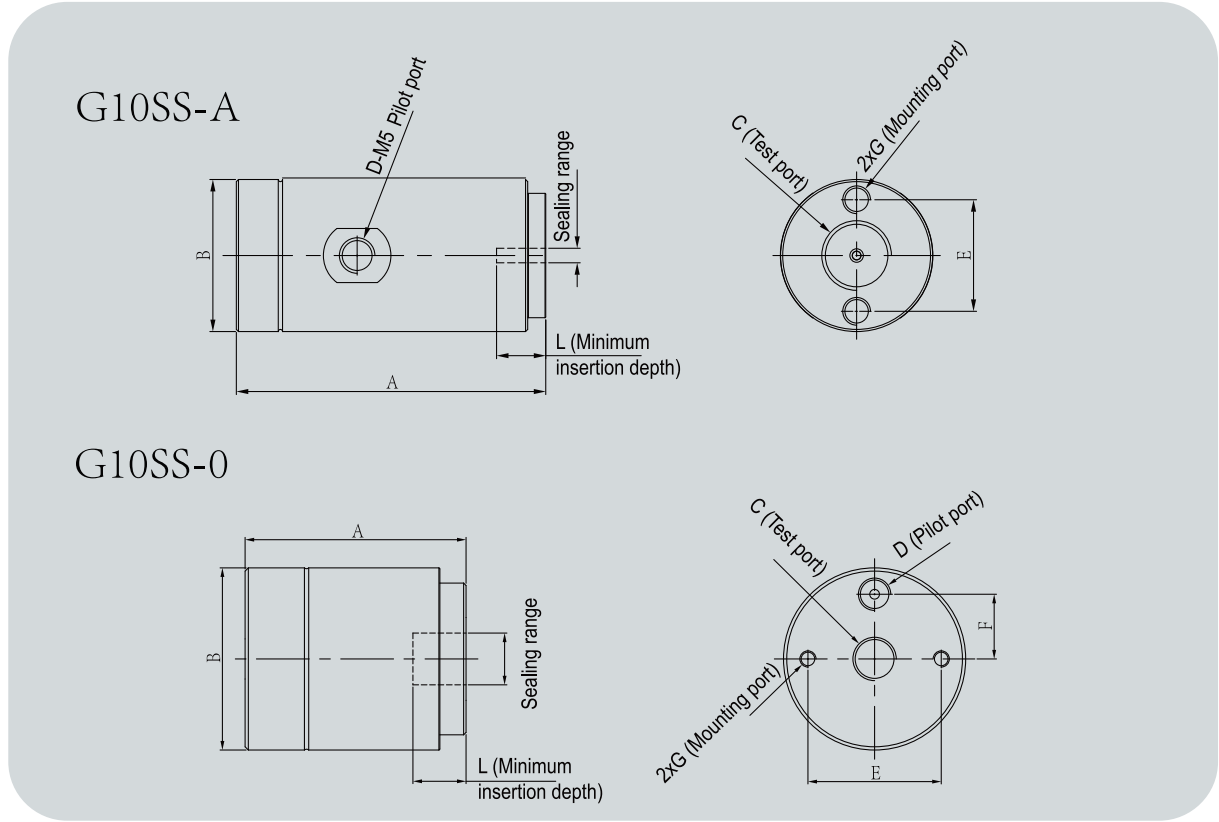


# G10SS

Connectors for external tubes  
(Stainless steel version)

One-stop connection solution

Easy to replace | Automatic operation | Full range of models| Quick operation | Diversified seal materials | External seal



G10SS specification sheet (Stainless steel version)

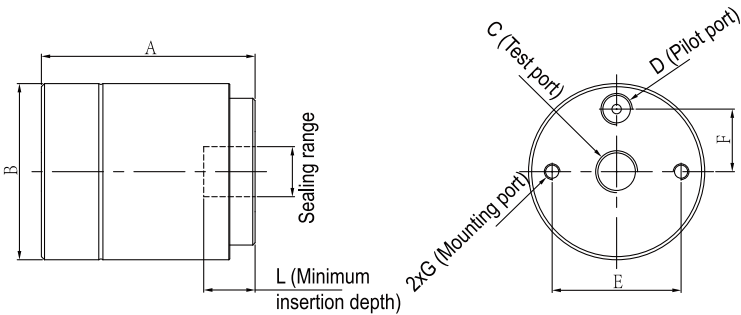
| Part Number | Sealing Range | Dim A | Dim  | Dim      | Dim D | Dim E | Dim F | Dim G | Dim L | Main Seals Package** |
|-------------|---------------|-------|------|----------|-------|-------|-------|-------|-------|----------------------|
| G10SS-A007  | 0.8 - 1.3     | 43.5  | 21.4 | 1/8"BSPP | M5    | 15.7  | N/A   | M4    | 4.5   | SG10A007             |
| G10SS-A013  | 1.3 - 2.0     |       |      |          |       |       |       |       |       | SG10A013             |
| G10SS-A020  | 2.0 - 3.3     |       |      |          |       |       |       |       |       | SG10A020             |
| G10SS-A007C | 0.8 - 1.3     | 43.5  | 21.4 | 1/8"BSPP | M5    | 15.7  | N/A   | M4    | 6.1   | SG10A070C            |
| G10SS-A013C | 1.3 - 2.0     |       |      |          |       |       |       |       |       | SG10A013C            |
| G10SS-A020C | 2.0 - 3.3     |       |      |          |       |       |       |       |       | SG10A020C            |
| G10SS-0007D | 0.8 - 1.3     | 51.4  | 37.9 | 1/8"BSPP | M5    | 27.6  | 13.8  | M5    | 15    | SG100007D            |
| G10SS-0013D | 1.3 - 2.0     |       |      |          |       |       |       |       |       | SG100013D            |
| G10SS-0020D | 2.0 - 3.3     |       |      |          |       |       |       |       |       | SG100020D            |
| G10SS-0025  | 2.5 - 4.5     |       |      |          |       |       |       |       |       | SG100025             |
| G10SS-0045  | 4.5 - 6.5     |       |      |          |       |       |       |       |       | SG100045             |
| G10SS-0065  | 6.5 - 8.5     |       |      |          |       |       |       |       |       | SG100065             |
| G10SS-0075  | 7.5 - 9.5     |       |      |          |       |       |       |       |       | SG100075             |
| G10SS-0085  | 8.5 - 10.5    |       |      |          |       |       |       |       |       | SG100085             |
| G10SS-0095  | 9.5 - 11.5    |       |      |          |       |       |       |       |       | SG100095             |
| G10SS-0105  | 10.5 - 13.0   |       |      |          |       |       |       |       |       | SG100105             |

# G10RC

Connectors for external tubes  
(BSPT thread)

One-stop connection solution

Easy to replace | Automatic operation | Full range of models| Quick operation | Diversified seal materials | External seal



G10RC specification sheet (Aluminum alloy version)

| Part Number | Sealing Rang | Dim   | Dim B | Dim      | Dim      | Dim E | Dim F | Dim G | Dim L | Main Seals Package** |
|-------------|--------------|-------|-------|----------|----------|-------|-------|-------|-------|----------------------|
| G10RC-0007D | 0.8 - 1.3    | 51.4  | 37.9  | 1/8"BSPT | M5       | 27.6  | 13.8  | M5    | 15    | SG100007D            |
| G10RC-0013D | 1.3 - 2.0    |       |       |          |          |       |       |       |       | SG100013D            |
| G10RC-0020D | 2.0 - 3.3    |       |       |          |          |       |       |       |       | SG100020D            |
| G10RC-0025  | 2.5 - 4.5    |       |       |          |          |       |       |       |       | SG100025             |
| G10RC-0045  | 4.5 - 6.5    |       |       |          |          |       |       |       |       | SG100045             |
| G10RC-0065  | 6.5 - 8.5    |       |       |          |          |       |       |       |       | SG100065             |
| G10RC-0075  | 7.5 - 9.5    |       |       |          |          |       |       |       |       | SG100075             |
| G10RC-0085  | 8.5 - 10.5   |       |       |          |          |       |       |       |       | SG100085             |
| G10RC-0095  | 9.5 - 11.5   |       |       |          |          |       |       |       |       | SG100095             |
| G10RC-0105  | 10.5 - 13.0  |       |       |          |          |       |       |       |       | SG100105             |
| G10RC-1110  | 11.0 - 13.0  | 68.4  | 56.3  | 1/4"BSPT | 1/8"BSPT | 41.2  | 20    | M5    | 15    | SG101110             |
| G10RC-1130  | 13.0 - 15.0  |       |       |          |          |       |       |       |       | SG101130             |
| G10RC-1150  | 15.0 - 17.0  |       |       |          |          |       |       |       |       | SG101150             |
| G10RC-1160  | 16.0 - 18.0  |       |       |          |          |       |       |       |       | SG101160             |
| G10RC-1170  | 17.0 - 19.0  |       |       |          |          |       |       |       |       | SG101170             |
| G10RC-1180  | 18.0 - 20.0  |       |       |          |          |       |       |       |       | SG101180             |
| G10RC-1190  | 19.0 - 21.0  |       |       |          |          |       |       |       |       | SG101190             |
| G10RC-2200  | 20.0 - 22.0  | 88.7  | 79    | 1/2"BSPT | 1/8"BSPT | 63.5  | 31.7  | M6    | 30    | SG102200             |
| G10RC-2220  | 22.0 - 24.0  |       |       |          |          |       |       |       |       | SG102220             |
| G10RC-2240  | 24.0 - 26.0  |       |       |          |          |       |       |       |       | SG102240             |
| G10RC-2260  | 26.0 - 28.0  |       |       |          |          |       |       |       |       | SG102260             |
| G10RC-2280  | 28.0 - 30.0  |       |       |          |          |       |       |       |       | SG102280             |
| G10RC-2300  | 30.0 - 32.0  |       |       |          |          |       |       |       |       | SG102300             |
| G10RC-2320  | 32.0 - 34.0  |       |       |          |          |       |       |       |       | SG102320             |
| G10RC-2340  | 34.0 - 36.0  |       |       |          |          |       |       |       |       | SG102340             |
| G10RC-2360  | 36.0 - 38.0  |       |       |          |          |       |       |       |       | SG102360             |
| G10RC-3380  | 38.0 - 41.0  | 113.5 | 107.4 | 1"BSPT   | 1/8"BSPT | 82.6  | 41.3  | M6    | 30    | SG103380             |
| G10RC-3410  | 41.0 - 44.0  |       |       |          |          |       |       |       |       | SG103410             |
| G10RC-3440  | 44.0 - 47.0  |       |       |          |          |       |       |       |       | SG103440             |
| G10RC-3470  | 47.0 - 50.0  |       |       |          |          |       |       |       |       | SG103470             |

1. Nonstandard models of G10RC quick connectors include: larger outer diameter dimensions, shaft extension, shorter sealing length, etc.
  2. Customized models of G10RC quick connectors include: sealing various threads, non-circular shapes, with snap mechanism, multiple connector combinations, etc.
- Please contact your local distributor or GripSeal sales representative for more information.



In comparison to the traditional G10 series connectors, G10 Pro series can be mounted externally with a magnetic sensor, which enables more accurate tracking of the connector drive, seal expansion, eliminating incorrect connections resulted from improper sealing, and enhancing the efficiency of automated inspection.



### Automated externally enclosed connection solutions

- \* Sensor feedback for advance judgment
- \* Eliminating waste caused by connection failures
- \* Automated testing to maximize throughput capabilities
- \* Improving the stability throughout the testing process

Features of G10 Pro series quick connectors

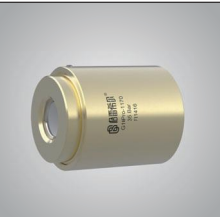
1. Sensor feedback
- Verify whether the connection good or not by setting the position of the sensor.
2. Pneumatic actuated
- Inject air through the rear pilot hole to push the built-in piston and compress the seal achieving tight sealing
3. Automatic operation
- Through the two mounting holes, the connector can be fixed to any actuator, realizing automatic operation with accuracy and reliability.
4. Damage-free connection
- The seal is clamped without causing any damage to the surface of the test piece.

G10 Pro series quick connectors are available in multiple body sizes, ranging from A to 3, offering a sealing range of 0.8mm to 50mm.

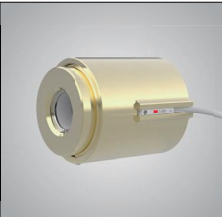
Body sizes



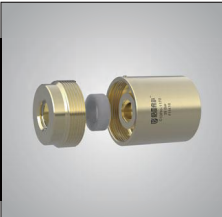
Advantages of G10 Pro quick connectors



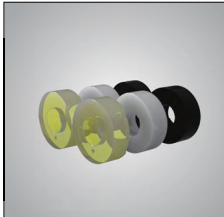
Non-destructive connection, causing no damage to the product appearance



Position sensor: Reporting the movement of the internal piston in real time



Quick seals replacement: Simple maintenance & extended service life

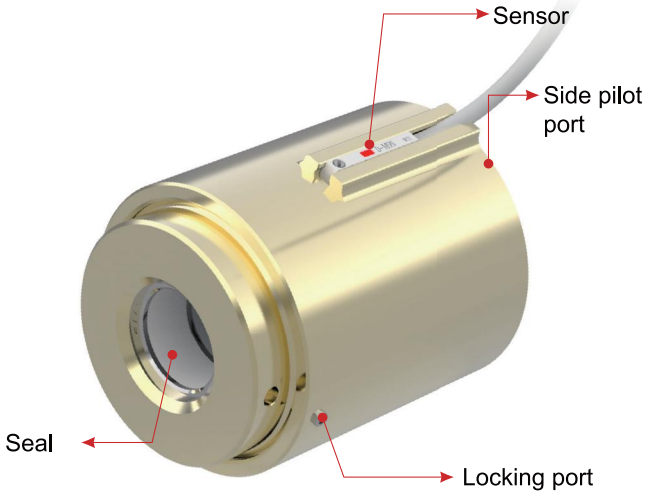


Seals materials: Different materials to meet diversified customer needs



Automatic operation: Higher efficiency & more consistent test results

Specifications of G10 Pro quick connectors



|                        |                                          |
|------------------------|------------------------------------------|
| Max operation pressure | From Vacuum to 35 Bar                    |
| Sealing range          | See the specification sheet.             |
| Minimize insert depth  | BS1, BS2: 15mm<br>BS2, BS3: 30mm         |
| Termination port       | 1/8"BSPP, 1/4"BSPP, 1/2"BSPP thread hole |
| Material of main body  | Aluminum alloy or stainless steel        |
| Main seal              | Neoprene/silicone                        |
| Internal seal          | Buna-N                                   |
| Pilot pressure         | 4-6 Bar                                  |
| Operation temperature  | -20°C - 120°C                            |

The G10 Pro series creates a leak-free external connection for a variety of fittings by applying the pneumatic actuated piston to compress the internal sealing ring. G10 Pro connectors are ideal for air tightness testing and functional testing.

Test on cooling tube

Turbo

Radiator

Plastic port

Fuel pump



Charcoal canister



Medical catheters



Motor controller

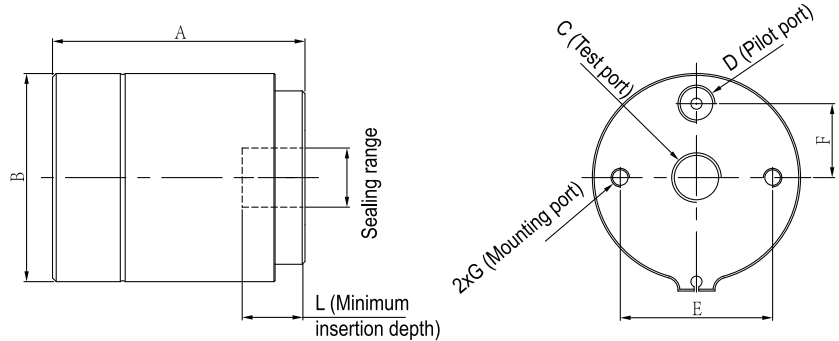


# G10 Pro

Connectors for external tubes

One-stop connection solution

Signal feedback | Automatic operation | OD sealing | Complete range of models | Non-destructive connection



G10 Pro specification sheet (Aluminum alloy version)

| Part Number  | Sealing Range | Dim  | Dim B | Dim      | Dim      | Dim E | Dim F | Dim G | Dim | Main Seals Package** |
|--------------|---------------|------|-------|----------|----------|-------|-------|-------|-----|----------------------|
| G10Pro-0007D | 0.8 - 1.3     | 53.6 | 41    | 1/8"BSPP | M5       | 27.6  | 13.8  | M5    | 15  | SG100007D            |
| G10Pro-0013D | 1.3 - 2.0     |      |       |          |          |       |       |       |     | SG100013D            |
| G10Pro-0020D | 2.0 - 3.3     |      |       |          |          |       |       |       |     | SG100020D            |
| G10Pro-0025  | 2.5 - 4.5     |      |       |          |          |       |       |       |     | SG100025             |
| G10Pro-0045  | 4.5 - 6.5     |      |       |          |          |       |       |       |     | SG100045             |
| G10Pro-0065  | 6.5 - 8.5     |      |       |          |          |       |       |       |     | SG100065             |
| G10Pro-0075  | 7.5 - 9.5     |      |       |          |          |       |       |       |     | SG100075             |
| G10Pro-0085  | 8.5 - 10.5    |      |       |          |          |       |       |       |     | SG100085             |
| G10Pro-0095  | 9.5 - 11.5    |      |       |          |          |       |       |       |     | SG100095             |
| G10Pro-0105  | 10.5 - 13.0   | 68.4 | 60    | 1/4"BSPP | 1/8"BSPP | 41.2  | 20    | M5    | 15  | SG100105             |
| G10Pro-1110  | 11.0 - 13.0   |      |       |          |          |       |       |       |     | SG101110             |
| G10Pro-1130  | 13.0 - 15.0   |      |       |          |          |       |       |       |     | SG101130             |
| G10Pro-1150  | 15.0 - 17.0   |      |       |          |          |       |       |       |     | SG101150             |
| G10Pro-1160  | 16.0 - 18.0   |      |       |          |          |       |       |       |     | SG101160             |
| G10Pro-1170  | 17.0 - 19.0   |      |       |          |          |       |       |       |     | SG101170             |
| G10Pro-1180  | 18.0 - 20.0   | 91.4 | 83    | 1/2"BSPP | 1/8"BSPP | 63.5  | 31.7  | M6    | 30  | SG101180             |
| G10Pro-1190  | 19.0 - 21.0   |      |       |          |          |       |       |       |     | SG101190             |
| G10Pro-2200  | 20.0 - 22.0   |      |       |          |          |       |       |       |     | SG102200             |
| G10Pro-2220  | 22.0 - 24.0   |      |       |          |          |       |       |       |     | SG102220             |
| G10Pro-2240  | 24.0 - 26.0   |      |       |          |          |       |       |       |     | SG102240             |
| G10Pro-2260  | 26.0 - 28.0   |      |       |          |          |       |       |       |     | SG102260             |
| G10Pro-2280  | 28.0 - 30.0   |      |       |          |          |       |       |       |     | SG102280             |
| G10Pro-2300  | 30.0 - 32.0   |      |       |          |          |       |       |       |     | SG102300             |
| G10Pro-2320  | 32.0 - 34.0   |      |       |          |          |       |       |       |     | SG102320             |
| G10Pro-2340  | 34.0 - 36.0   | 91.4 | 83    | 1/2"BSPP | 1/8"BSPP | 63.5  | 31.7  | M6    | 30  | SG102340             |
| G10Pro-2360  | 36.0 - 38.0   |      |       |          |          |       |       |       |     | SG102360             |

1. Nonstandard models of G10 Pro quick connectors include: larger outer diameter dimensions, shaft extension, shorter sealing length, etc.  
2. Customized models of G10 Pro quick connectors include: sealing various threads, non-circular shapes, with snap mechanism, multiple connector combinations, etc.  
Please contact your local distributor or GripSeal sales representative for more information.

# G10D

External connectors (Double thrust)

One-stop connection solution

High flow | Side inlet | Externally enclosed design | Fixed inlet port | Small OD

The G10D series pneumatic quick connector uses the pilot pressure to push the internal piston and compress the seal to achieve tight sealing. Compared to the standard G10 series, the G10D series connectors have a smaller OD and are more suitable for scenarios with limited space. The innovative "double thrust" technology allows G10D to maintain stable thrust even with a small OD.



## Pneumatic external connector

- \* Small size and high flow
- \* Reducing overall manufacturing costs through more efficient testing
- \* Automated testing to maximize throughput capabilities
- \* Improving the test stability
- \* Eliminating waste caused by connection failures

## Features of G10D series quick connectors

1. Double thrust  
The "double thrust" technology allows G10D to provide strong thrust and maintain stable sealing even with a small OD.
2. Fixed termination port  
The side termination port is a fixed termination port that does not move with the internal movement of the connector, reducing disturbance. It helps maintain the stability of the test connector.
3. Small OD  
It is more suitable for automation application scenarios with limited space.
4. High flow  
Both the side inlet and the straight-through inlet adopt a large diameter design, fully ensuring the flow rate during liquid testing

G10D series quick connectors are available in multiple body sizes, ranging from 0 to 2, offering a sealing range of 0.8mm to 28mm.

### Body sizes





# G10D

## External connectors (Double thrust)

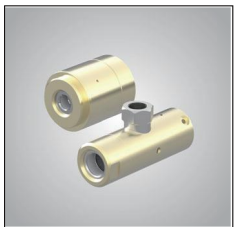
One-stop connection solution

High flow | Side inlet | Externally enclosed design | Fixed inlet port | Small OD

### Advantages of G10D quick connectors



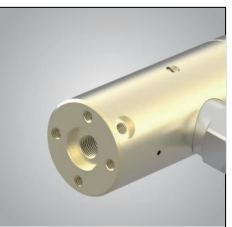
Side termination port:  
This port facilitates on-site routing.



Smaller OD:  
G10D is more slender and suitable for scenarios with limited space.



Double thrust:  
It ensures stable compression force to maintain the stability of test results.

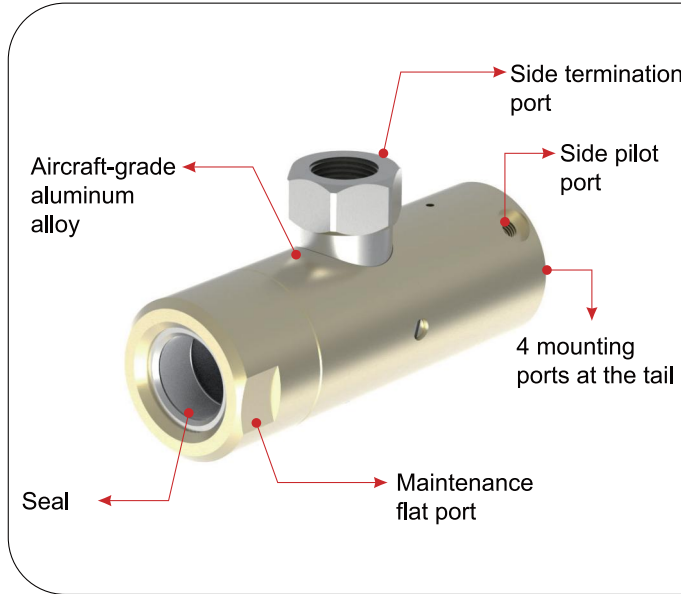


Double pilot ports:  
The side and bottom pilot ports are available and can be selected flexibly according to the actual requirements.



Maintenance flat port:  
This port facilitates assembly/disassembly, maintenance, and seal replacement of the connector.

### Specifications of G10D quick connectors



Aircraft-grade aluminum alloy

Side termination port

Side pilot port

4 mounting ports at the tail

Seal

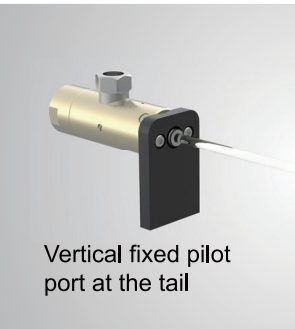
Maintenance flat port

|                        |                                          |
|------------------------|------------------------------------------|
| Max operation pressure | From Vacuum to 10 Bar                    |
| Sealing range          | 0.8mm - 28mm                             |
| Minimize insert depth  | BS0, BS1, BS2:15mm                       |
| Termination port       | 1/8"BSPP, 3/8"BSPP, 1/2"BSPP thread hole |
| Material of main body  | Aluminum alloy                           |
| Main seal              | Medical-grade silicone/Neoprene          |
| Internal seal          | Buna-N                                   |
| Pilot pressure         | 4-8Bar                                   |
| Operation temperature  | -20°C - 120°C                            |

G10D can be installed in multiple ways. It has four threaded holes at the bottom and the test port direction is adjustable. Either the side or bottom pilot port can be selected.



Multiple positions for mounting and pilot ports



Vertical fixed pilot port at the tail



Horizontal fixed pilot port at the tail



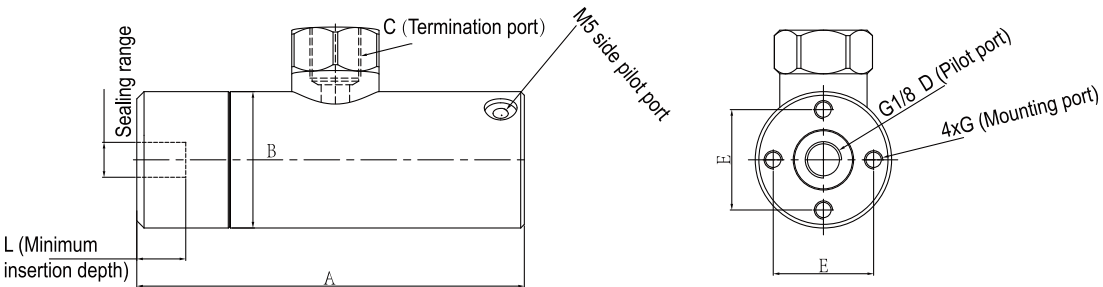
Horizontal fixed pilot port on the lateral side

# G10D

## External connectors (Double thrust)

One-stop connection solution

High flow | Side inlet | Externally enclosed design | Fixed inlet port | Small OD



### G10D specification sheet (Aluminum alloy version)

| Part Number | Sealing Range | Dim A | Dim B | Dim C    | Dim E | Dim G | Insertion Depth (L) | Main Seals Package** |
|-------------|---------------|-------|-------|----------|-------|-------|---------------------|----------------------|
| G10D-0007D  | 0.8 - 1.3     | 99.9  | 29.7  | 1/8"BSPP | 23    | M4    | 15.4                | SG10D0007D           |
| G10D-0013D  | 1.3 - 2.0     |       |       |          |       |       |                     | SG10D0013D           |
| G10D-0020D  | 2.0 - 3.3     |       |       |          |       |       |                     | SG10D0020D           |
| G10D-0025   | 2.5 - 4.5     |       |       |          |       |       |                     | SG10D0025            |
| G10D-0045   | 4.5 - 6.5     |       |       |          |       |       |                     | SG10D0045            |
| G10D-0065   | 6.5 - 8.5     |       |       |          |       |       |                     | SG10D0065            |
| G10D-0075   | 7.5 - 9.5     |       |       |          |       |       |                     | SG10D0075            |
| G10D-0085   | 8.5 - 10.5    |       |       |          |       |       |                     | SG10D0085            |
| G10D-0095   | 9.5 - 11.5    |       |       |          |       |       |                     | SG10D0095            |
| G10D-0105   | 10.5 - 13.0   | 106.6 | 37.5  | 3/8"BSPP | 27.6  | M5    | 15.3                | SG10D0105            |
| G10D-1110   | 11.0 - 13.0   |       |       |          |       |       |                     | SG10D1110            |
| G10D-1130   | 13.0 - 15.0   |       |       |          |       |       |                     | SG10D1130            |
| G10D-1150   | 15.0 - 17.0   |       |       |          |       |       |                     | SG10D1150            |
| G10D-1160   | 16.0 - 18.0   |       |       |          |       |       |                     | SG10D1160            |
| G10D-1170   | 17.0 - 19.0   |       |       |          |       |       |                     | SG10D1170            |
| G10D-1180   | 18.0 - 20.0   |       |       |          |       |       |                     | SG10D1180            |
| G10D-1190   | 19.0 - 21.0   |       |       |          |       |       |                     | SG10D1190            |
| G10D-1210   | 21.0 - 23.0   |       |       |          |       |       |                     | SG10D1210            |
| G10D-2200   | 20.0 - 22.0   | 116.6 | 44.7  | 1/2"BSPP | 32    | M6    | 18.0                | SG10D2200            |
| G10D-2220   | 22.0 - 24.0   |       |       |          |       |       |                     | SG10D2220            |
| G10D-2240   | 24.0 - 26.0   |       |       |          |       |       |                     | SG10D2240            |
| G10D-2260   | 26.0 - 28.0   |       |       |          |       |       |                     | SG10D2260            |

The G10D series connectors have the advantages of small size, high flow, pneumatic actuated, and leak free, making them the best connection solution for the automated pressure test, running test, flow test, etc. The G1/8 pilot port at the bottom of the connector and the M5 pilot port on the side can be selected by the user as required. The two air paths are connected, and the standard product is equipped with an M5 sealing cap.



# G15 Connectors for internal tubes

One-stop connection solution

Low pressure test | Easy to replace | Automatic operation | Full range of models | Quick operation | Diversified seal materials | Small size | Internal expansion for sealing

The G15 series pneumatic quick seal connector utilizes air pressure to inflate the seal and create an internal airtight connection with virtually any type of tube, which is ideal for high volume automated production testing.



## High-efficient automatic connection solution

- \* Pneumatic actuated, providing more stable pilot pressure
- \* Instantaneous connection, suitable for smooth, rough, porous, threaded, and various irregular fittings
- \* Seals material, exquisite and reliable, causing no damage to the product surface
- \* Available for gripping-positioning applications for robotic manipulators, simple maintenance and replaceable seals, which significantly extends the service life of the connectors

## Features of G15 series quick connectors

### 1. Pneumatic actuated

Air can be injected through the rear pilot hole to push the built-in piston and compress the seal to achieve tight sealing.

### 2. Automatic operation

Through the two mounting holes, the connector can be fixed to any actuator, realizing automatic operation with accuracy and reliability.

### 3. Straight-through test port

This port reduces the intermediate part, improves the sealing and keeps the flow high.

### 4. Stroke limiter

The build-in stroke limiter limits the maximum position of the piston, and prevents the seal from falling out due to overload.

G15 series quick connectors are available in multiple body sizes, ranging from 0 to 5, offering a sealing range of 8.5mm to 44mm.

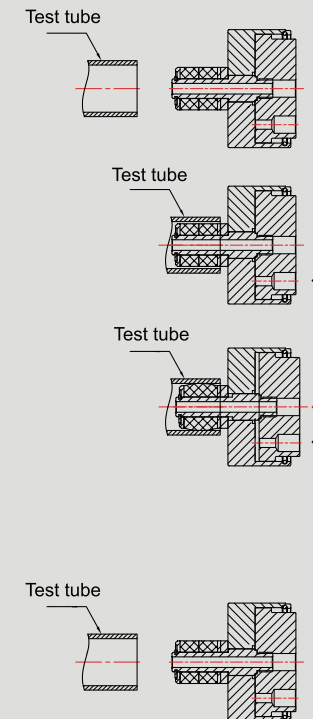
#### Body sizes



# G15 Connectors for internal tubes

One-stop connection solution

Low pressure test | Easy to replace | Automatic operation | Full range of models | Quick operation | Diversified seal materials | Small size | Internal expansion for sealing



## Enable easier and reliable connections

### Step 1:

Insert the test tube into test port of the G15 series, and secure the test tube and connector.

### Step 2:

Introduce pilot pressure to pilot port. The seal is squeezed, creating expansion, which in turn clings to inner wall of test tube. In result, a leak tight seal is formed.

### Step 3:

- Filling the test port with test medium upon the formation of the seal (such as compressed air, test fluid, etc.)
- After the test is completed, release the inner test pressure to atmospheric pressure, then remove the pilot pressure, the seal is no longer be squeezed, the seal connection release the test tube.

### Step 4:

Once the above operations are completed, the test tube can be removed from the connector.

## G15 quick connectors





# G15 Connectors for internal tubes

One-stop connection solution

Low pressure test | Easy to replace | Automatic operation | Full range of models| Quick operation | Diversified seal materials | Small size | Internal expansion for sealing

## Advantages of G15 quick connectors



Pneumatic actuated:  
Good sealing and simple operation



Flexible customization:  
Flexible clamping position to avoid space collisions



Quick seals replacement:  
Simple maintenance & extended service life

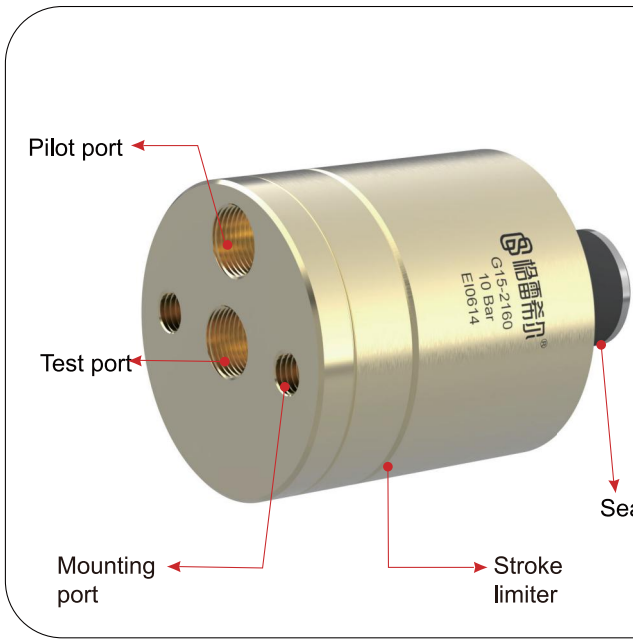


Compact size:  
Less operating space occupied & can be placed anywhere in the fixture



Automatic operation:  
Higher efficiency & more consistent test results

## Specifications of G15 quick connectors



|                        |                                  |
|------------------------|----------------------------------|
| Max operation pressure | From Vacuum to 8 Bar             |
| Sealing range          | 8.5mm - 44mm                     |
| Minimize insert depth  | BS0, BS1: 15mm<br>BS3, BS4: 25mm |
| Termination port       | 1/8"BSPP, 3/8"BSPP               |
| Material of main body  | Aluminum alloy                   |
| Main seal              | Neoprene/silicone                |
| Internal seal          | Buna-N                           |
| Pilot pressure         | 4-6 Bar                          |
| Operation temperature  | -20°C - 120°C                    |

The G15 system is designed to create a leak-free internal connection for a wide range of fittings by injecting the pilot pressure into the tail drive hole and forcing the piston forward, thereby squeezing the seal at the front end. G15 connectors are the perfect choice for high-volume automated production applications.

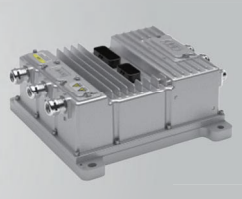
Test on cooling tube  
Turbo  
Radiator  
Plastic port  
Fuel pump



Cooling tube in electric motor



Engine assembly test

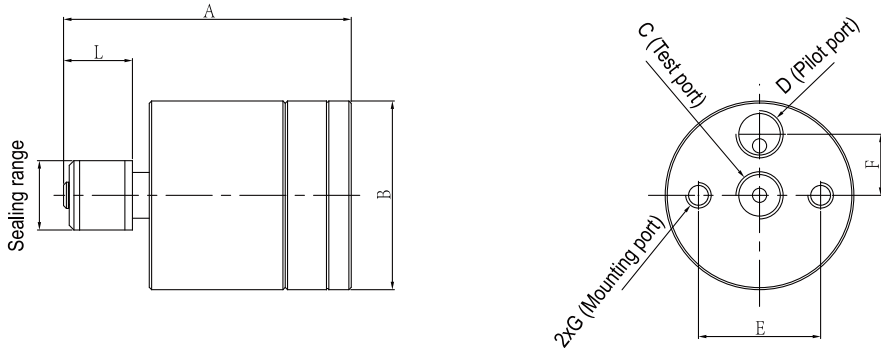


Motor controller

# G15 Connectors for internal tubes

One-stop connection solution

Low pressure test | Easy to replace | Automatic operation | Full range of models| Quick operation | Diversified seal materials | Small size | Internal expansion for sealing



| Part Number | Sealing Range | Dim  | Dim  | Dim      | Dim D    | Dim  | Dim  | Dim G | Dim L | Main Seals Package** |
|-------------|---------------|------|------|----------|----------|------|------|-------|-------|----------------------|
| G15-0080    | 8.0 - 8.5     | 50.4 | 33.5 | M5       | M5       | 20.3 | 10   | M5    | 12.2  | SG150080             |
| G15-0085    | 8.5 - 9.5     |      |      |          |          |      |      |       |       | SG150085             |
| G15-0095    | 9.5 - 10.5    |      |      |          |          |      |      |       |       | SG150095             |
| G15-1100    | 10.5 - 11.5   | 61.8 | 40   | 1/8"BSPP | 1/8"BSPP | 25.9 | 13   | M6    | 14.5  | SG151100             |
| G15-1110    | 11.5 - 12.5   |      |      |          |          |      |      |       |       | SG151110             |
| G15-1120    | 12.5 - 13.5   |      |      |          |          |      |      |       |       | SG151120             |
| G15-1130    | 13.5 - 14.5   |      |      |          |          |      |      |       |       | SG151130             |
| G15-1140    | 14.5 - 15.5   |      |      |          |          |      |      |       |       | SG151140             |
| G15-1150    | 15.5 - 17.0   |      |      |          |          |      |      |       |       | SG151150             |
| G15-2160    | 17.0 - 18.0   | 61.8 | 40   | 1/8"BSPP | 1/8"BSPP | 25.9 | 13   | M6    | 14.5  | SG152160             |
| G15-2170    | 18.0 - 19.0   |      |      |          |          |      |      |       |       | SG152170             |
| G15-2180    | 19.0 - 20.0   |      |      |          |          |      |      |       |       | SG152180             |
| G15-2190    | 20.0 - 21.0   |      |      |          |          |      |      |       |       | SG152190             |
| G15-2200    | 21.0 - 22.0   |      |      |          |          |      |      |       |       | SG152200             |
| G15-2210    | 22.0 - 23.0   |      |      |          |          |      |      |       |       | SG152210             |
| G15-3220    | 23.0 - 24.0   | 63.6 | 60   | 1/8"BSPP | 1/8"BSPP | 40.6 | 18.3 | M6    | 24.5  | SG153220             |
| G15-3230    | 24.0 - 25.0   |      |      |          |          |      |      |       |       | SG153230             |
| G15-3240    | 25.0 - 26.0   |      |      |          |          |      |      |       |       | SG153240             |
| G15-3250    | 26.0 - 27.0   |      |      |          |          |      |      |       |       | SG153250             |
| G15-3260    | 27.0 - 28.0   |      |      |          |          |      |      |       |       | SG153260             |
| G15-3270    | 28.0 - 29.0   |      |      |          |          |      |      |       |       | SG153270             |
| G15-4280    | 29.0 - 30.0   | 63.6 | 60   | 1/8"BSPP | 1/8"BSPP | 40.6 | 18.3 | M6    | 24.5  | SG154280             |
| G15-4290    | 30.0 - 31.0   |      |      |          |          |      |      |       |       | SG154290             |
| G15-4300    | 31.0 - 32.0   |      |      |          |          |      |      |       |       | SG154300             |
| G15-4310    | 32.0 - 33.0   |      |      |          |          |      |      |       |       | SG154310             |
| G15-4320    | 33.0 - 34.0   |      |      |          |          |      |      |       |       | SG154320             |
| G15-4330    | 34.0 - 35.0   |      |      |          |          |      |      |       |       | SG154330             |
| G15-5340    | 35.0 - 37.0   | 93.5 | 88.5 | 3/8"BSPP | 1/8"BSPP | 58.7 | 29.4 | M8    | 31.3  | SG155340             |
| G15-5350    | 36.0 - 38.0   |      |      |          |          |      |      |       |       | SG155350             |
| G15-5370    | 38.0 - 40.0   |      |      |          |          |      |      |       |       | SG155370             |
| G15-5390    | 40.0 - 42.0   |      |      |          |          |      |      |       |       | SG155390             |
| G15-5400    | 41.0 - 43.0   |      |      |          |          |      |      |       |       | SG155400             |
| G15-5420    | 43.0 - 45.0   |      |      |          |          |      |      |       |       | SG155420             |

1. Nonstandard models of G15 quick connectors include: larger dimensions (up to 80mm), longer center rod, larger OD of the termination port, shorter seal thickness, etc.

2. Customized models of G15 quick connectors include: sealing various threads, smaller volumes, complex shapes, etc.

Please contact your local distributor or GripSeal sales representative for more information.

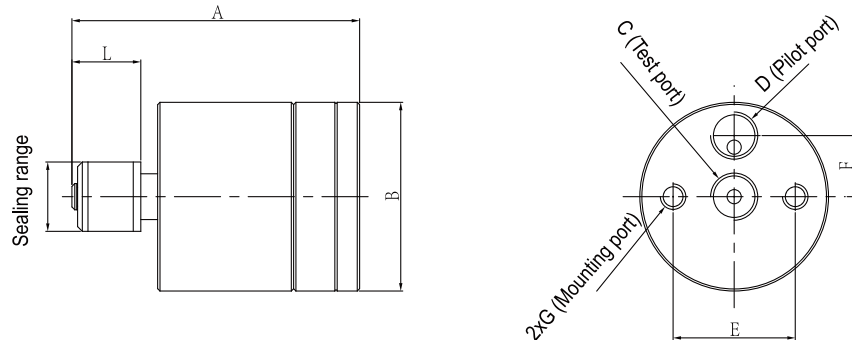


G15RC

Connectors for internal tubes  
(BSPT threads)

One-stop connection solution

Low pressure test | Easy to replace | Automatic operation | Full range of models| Quick operation |  
Diversified seal materials | Small size | Internal expansion for sealing



| Part Number     | Sealing Range | Dim   | Dim B | Dim C    | Dim      | Dim  | Dim F | Dim G | Dim L | Main Seals Package** |
|-----------------|---------------|-------|-------|----------|----------|------|-------|-------|-------|----------------------|
| G15RC-1100      | 10.5 - 11.5   | 61.8  | 40    | 1/8"BSPT |          | 25.9 | 13    | M6    | 14.5  | SG151100             |
| G15RC-1110      | 11.5 - 12.5   |       |       |          |          |      |       |       |       | SG151110             |
| G15RC-1120      | 12.5 - 13.5   |       |       |          |          |      |       |       |       | SG151120             |
| G15RC-1130      | 13.5 - 14.5   |       |       |          |          |      |       |       |       | SG151130             |
| G15RC-1140      | 14.5 - 15.5   |       |       |          |          |      |       |       |       | SG151140             |
| G15RC-1150      | 15.5 - 17.0   |       |       |          |          |      |       |       |       | SG151150             |
| G15RC-2160      | 17.0 - 18.0   | 61.8  | 40    | 1/8"BSPT |          | 25.9 | 13    | M6    | 14.5  | SG152160             |
| G15RC-2170      | 18.0 - 19.0   |       |       |          |          |      |       |       |       | SG152170             |
| G15RC-2180      | 19.0 - 20.0   |       |       |          |          |      |       |       |       | SG152180             |
| G15RC-2190      | 20.0 - 21.0   |       |       |          |          |      |       |       |       | SG152190             |
| G15RC-2200      | 21.0 - 22.0   |       |       |          |          |      |       |       |       | SG152200             |
| G15RC-2210      | 22.0 - 23.0   |       |       |          |          |      |       |       |       | SG152210             |
| G15RC-3220      | 23.0 - 24.0   | 63.6  | 60    | 1/4"BSPT | 1/8"BSPT | 40.6 | 18.3  | M6    | 24.5  | SG153220             |
| G15RC-3230      | 24.0 - 25.0   |       |       |          |          |      |       |       |       | SG153230             |
| G15RC-3240      | 25.0 - 26.0   |       |       |          |          |      |       |       |       | SG153240             |
| G15RC-3250      | 26.0 - 27.0   |       |       |          |          |      |       |       |       | SG153250             |
| G15RC-3260      | 27.0 - 28.0   |       |       |          |          |      |       |       |       | SG153260             |
| G15RC-3270      | 28.0 - 29.0   |       |       |          |          |      |       |       |       | SG153270             |
| G15RC-4280      | 29.0 - 30.0   | 63.6  | 60    | 1/4"BSPT | 1/8"BSPT | 40.6 | 18.3  | M6    | 24.5  | SG154280             |
| G15RC-4290      | 30.0 - 31.0   |       |       |          |          |      |       |       |       | SG154290             |
| G15RC-4300      | 31.0 - 32.0   |       |       |          |          |      |       |       |       | SG154300             |
| G15RC-4310      | 32.0 - 33.0   |       |       |          |          |      |       |       |       | SG154310             |
| G15RC-4320      | 33.0 - 34.0   |       |       |          |          |      |       |       |       | SG154320             |
| G15RC-4330      | 34.0 - 35.0   |       |       |          |          |      |       |       |       | SG154330             |
| G15RC-1120-250* | 13.0 - 14.0   | 86.8  | 40    | 1/8"BSPT | 1/8"BSPT | 25.9 | 13    | M6    | 14.5  | SG151120             |
| G15RC-2180-500* | 19.0 - 20.0   | 111.8 |       |          |          |      |       |       |       | SG152180             |
| G15RC-3260-750* | 27.0 - 28.0   | 138.6 | 60    | 1/4"BSPT |          | 40.6 | 18.3  |       | 24.5  | SG153260             |
| G15RC-4280-500* | 29.0 - 30.0   | 113.6 |       |          |          |      |       |       |       | SG154280             |

Note: The asterisk (\*) means that extended shaft versions are available, where H is an integer multiple of 25 mm, and the maximum value of H is 150 mm.

1. Nonstandard models of G15RC quick connectors include: larger dimensions (up to 80mm), longer center rod, larger OD of the termination port, shorter seal thickness, etc.

2. Customized models of G15RC quick connectors include: sealing various threads, smaller volumes, complex shapes, etc.

Please contact your local distributor or GripSeal sales representative for more information.

G15 Pro

Connectors for internal tubes

One-stop connection solution

Sensor feedback | Identity confirm after connector in place | Internal sealing | Easy to maintain |  
Full range of models | Automatic operation

In comparison to the traditional G15 series connectors, G15 Pro series can be mounted externally with a magnetic sensor, which enables more accurate tracking of the connector drive, seal expansion, eliminating incorrect connections resulted from improper sealing, and enhancing the efficiency of automated inspection.



### High-efficient automatic connection solution

- \* Pneumatic actuated, providing more stable pilot pressure
- \* Instantaneous connection, suitable for smooth, rough, porous, threaded, and various irregular fittings
- \* Seals material, exquisite and reliable, causing no damage to the product surface
- \* Available for gripping-positioning applications for robotic manipulators, simple maintenance and replaceable seals, which significantly extends the service life of the connectors

### Features of G15 Pro series quick connectors

1. **Sensor feedback**  
Verify whether the connection good or not by setting the position of the sensor.
2. **Pneumatic actuated**  
Air can be injected through the rear pilot hole to push the built-in piston and compress the seal to achieve tight sealing.
3. **Automatic operation**  
Through the two mounting holes, the connector can be fixed to any actuator, realizing automatic operation with accuracy and reliability.
4. **Damage-free connection**  
The seal is clamped without causing any damage to the surface of the test piece.

G15 Pro series quick connectors are available in multiple body sizes, ranging from 0 to 4, offering a sealing range of 8.5mm to 35mm.





# G15 Pro connectors for internal tubes

One-stop connection solution

Sensor feedback | Identity confirm after connector in place | Internal sealing | Easy to maintain | Full range of models | Automatic operation

## Advantages of G15 Pro quick connectors



Flexible customization, avoiding space collisions



Position sensor: Reporting the movement of the internal piston in real time



Quick seals replacement: Simple maintenance & extended service life

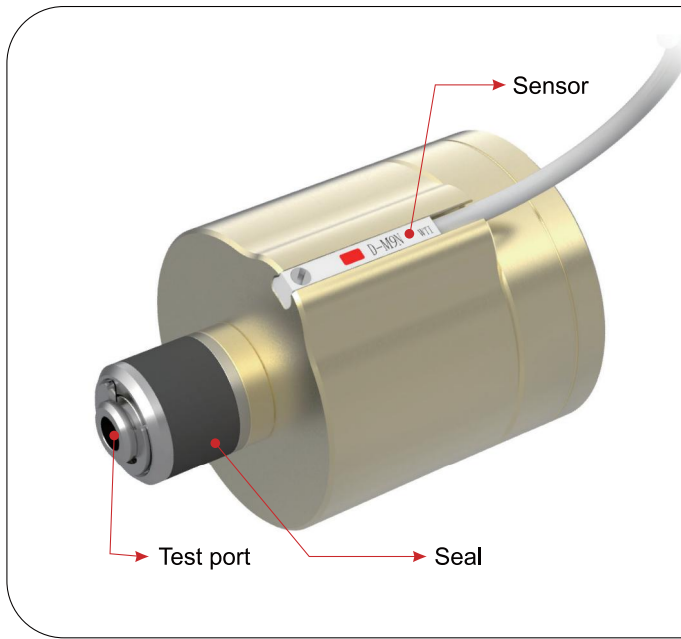


Different materials of seals to meet diversified customer needs



Automatic operation: Higher efficiency & more consistent test results

## Specifications of G15 Pro quick connectors



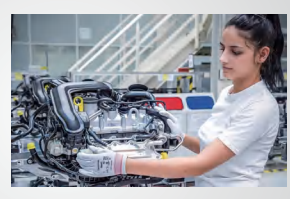
|                        |                                  |
|------------------------|----------------------------------|
| Max operation pressure | From Vacuum to 8 Bar             |
| Sealing range          | 8.5mm - 35mm                     |
| Minimize insert depth  | BS1, BS2: 15mm<br>BS3, BS4: 25mm |
| Termination port       | 1/8"BSPP                         |
| Material of main body  | Aluminum alloy                   |
| Main seal              | Neoprene/silicone                |
| Internal seal          | Buna-N                           |
| Pilot pressure         | 4-6 Bar                          |
| Operation temperature  | -20°C - 120°C                    |

The G15 Pro system is designed to create a leak-free internal connection for a wide range of fittings by injecting the pilot pressure into the tail drive hole and forcing the piston forward, thereby squeezing the seal at the front end. G15 Pro connectors are the perfect choice for high-volume automated production applications.

Test on cooling tube  
Turbo  
Radiator  
Plastic port  
Fuel pump



Cooling tube in electric motor



Engine assembly test

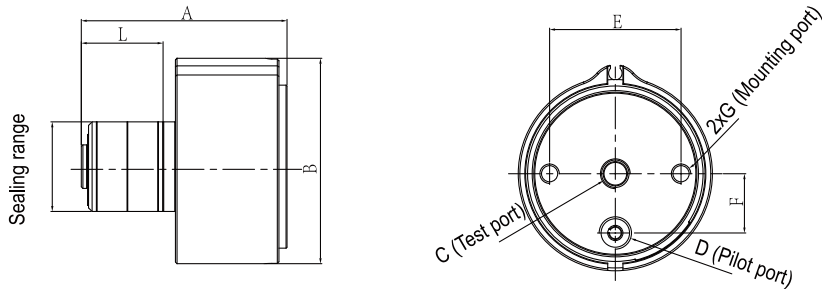


Motor controller

# G15 Pro connectors for internal tubes

One-stop connection solution

Sensor feedback | Identity confirm after connector in place | Internal sealing | Easy to maintain | Full range of models | Automatic operation



| Part Number | Sealing Range | Dim A | Dim B | Dim C    | Dim D | Dim E | Dim F | Dim G | Dim L | Main Seals Package** |
|-------------|---------------|-------|-------|----------|-------|-------|-------|-------|-------|----------------------|
| G15Pro-0080 | 8.0 - 8.5     | 54.7  | 38    | M5       | M5    | 20.3  | 10    | M5    | 12.2  | SG150080             |
| G15Pro-0085 | 8.5 - 9.5     |       |       |          |       |       |       |       |       | SG150085             |
| G15Pro-0095 | 9.5 - 10.5    |       |       |          |       |       |       |       |       | SG150095             |
| G15Pro-1100 | 10.5 - 11.5   | 62    | 45    | 1/8"BSPP |       | 25.9  | 13    | M6    | 14.5  | SG151100             |
| G15Pro-1110 | 11.5 - 12.5   |       |       |          |       |       |       |       |       | SG151110             |
| G15Pro-1120 | 12.5 - 13.5   |       |       |          |       |       |       |       |       | SG151120             |
| G15Pro-1130 | 13.5 - 14.5   |       |       |          |       |       |       |       |       | SG151130             |
| G15Pro-1140 | 14.5 - 15.5   |       |       |          |       |       |       |       |       | SG151140             |
| G15Pro-1150 | 15.5 - 17.0   |       |       |          |       |       |       |       |       | SG151150             |
| G15Pro-2160 | 17.0 - 18.0   | 62    | 45    | 1/8"BSPP |       | 25.9  | 13    | M6    | 14.5  | SG152160             |
| G15Pro-2170 | 18.0 - 19.0   |       |       |          |       |       |       |       |       | SG152170             |
| G15Pro-2180 | 19.0 - 20.0   |       |       |          |       |       |       |       |       | SG152180             |
| G15Pro-2190 | 20.0 - 21.0   |       |       |          |       |       |       |       |       | SG152190             |
| G15Pro-2200 | 21.0 - 22.0   |       |       |          |       |       |       |       |       | SG152200             |
| G15Pro-2210 | 22.0 - 23.0   |       |       |          |       |       |       |       |       | SG152210             |
| G15Pro-3220 | 23.0 - 24.0   | 63.6  | 64    | 1/8"BSPP |       | 40.6  | 18.3  | M6    | 24.5  | SG153220             |
| G15Pro-3230 | 24.0 - 25.0   |       |       |          |       |       |       |       |       | SG153230             |
| G15Pro-3240 | 25.0 - 26.0   |       |       |          |       |       |       |       |       | SG153240             |
| G15Pro-3250 | 26.0 - 27.0   |       |       |          |       |       |       |       |       | SG153250             |
| G15Pro-3260 | 27.0 - 28.0   |       |       |          |       |       |       |       |       | SG153260             |
| G15Pro-3270 | 28.0 - 29.0   |       |       |          |       |       |       |       |       | SG153270             |
| G15Pro-4280 | 29.0 - 30.0   | 63.6  | 64    | 1/8"BSPP |       | 40.6  | 18.3  | M6    | 24.5  | SG154280             |
| G15Pro-4290 | 30.0 - 31.0   |       |       |          |       |       |       |       |       | SG154290             |
| G15Pro-4300 | 31.0 - 32.0   |       |       |          |       |       |       |       |       | SG154300             |
| G15Pro-4310 | 32.0 - 33.0   |       |       |          |       |       |       |       |       | SG154310             |
| G15Pro-4320 | 33.0 - 34.0   |       |       |          |       |       |       |       |       | SG154320             |
| G15Pro-4330 | 34.0 - 35.0   |       |       |          |       |       |       |       |       | SG154330             |

1. Nonstandard models of G15 Pro quick connectors include: larger dimensions (up to 80mm), longer center rod, larger OD of the termination port, shorter seal thickness, etc.
2. Customized models of G15 Pro quick connectors include: sealing various threads, smaller sizes, complex shapes, etc. Please contact your local distributor or GripSeal sales representative for more information.



The G15K series pneumatic quick seal connector utilizes air pressure to inflate the seal and create an internal airtight connection with virtually any type of tube, which is ideal for high volume automated production testing. The innovative "quick maintenance" technology enables the replacement of seals without disassembling the connector, greatly shortening the maintenance time of the connector.



### Pneumatic internal expansion connectors

- \* Reducing overall manufacturing costs through more efficient testing
- \* Automated testing to maximize throughput capabilities
- \* Improving the test stability
- \* Fast replacement of seals to shorten the maintenance time

Features of G15K series quick connectors

- 1. Quick maintenance**

The button can be pressed to quickly remove the seal, greatly shortening the maintenance time.
- 2. Sealing through internal expansion**

The internal structure of the connector is compact, with a small volume and a wide range of applications.
- 3. Damage-free connection**

The parts in contact with the test port are all rubber parts, which will not cause damage to the customer's products.
- 4. Pneumatic actuated**

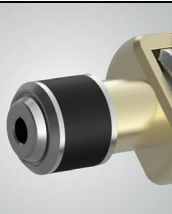
The expansion and contraction of the seal can be controlled by air pressure, and the product is suitable for automation application scenarios.

G15K series quick connectors are available in multiple body sizes, ranging from 0 to 4, offering a sealing range of 8.5mm to 35mm.

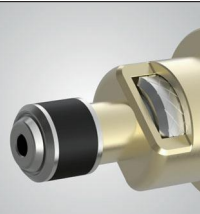
Body sizes



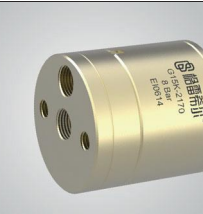
Advantages of G15K quick connectors



Sealing through internal expansion: Seals expanded to achieve sealing



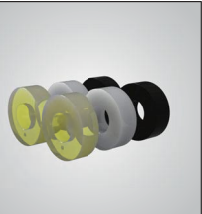
Fast replacement: Fast replacement of the seal to reduce the maintenance time and costs



Standard threaded ports: Standard threaded pilot, test, and mounting ports, facilitating selection of accessories



Compact size: Compact internal structure for a small size and a wide range of applications



Diversified materials: Diversified seal materials to meet requirements of different test scenarios.

Specifications of G15K quick connectors



Aircraft-grade aluminum alloy

Stroke limiter

Seal replacement button

Test port

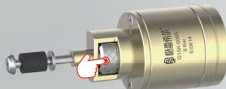
Anti-slip knurling surface

Main seal

|                        |                                  |
|------------------------|----------------------------------|
| Max operation pressure | From Vacuum to 8 Bar             |
| Sealing range          | 8.5mm - 35mm                     |
| Minimize insert depth  | BS1, BS2: 15mm<br>BS3, BS4: 25mm |
| Termination port       | M5, 1/8"BSPP                     |
| Material of main body  | Aluminum alloy                   |
| Main seal              | Neoprene/polyurethane/silicone   |
| Internal seal          | Buna-N                           |
| Pilot pressure         | 4-6 Bar                          |
| Operation temperature  | -20℃ - 120℃                      |

The G15K series connectors have the advantages of quick maintenance, damage-free connection, and no leakage, making them the best connection solution for the automated pressure test, running test, flow test, etc.

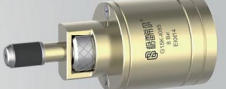
Seal replacement procedure:



**Step 1:** Press the silver button and the front end will automatically pop up (it is recommended to cover the front end with your palm to prevent the component from popping up and scattering). Then remove the old seal.



**Step 2:** Put on the new seal.



**Step 3:** Press in the new seal until an in-place sound is heard.

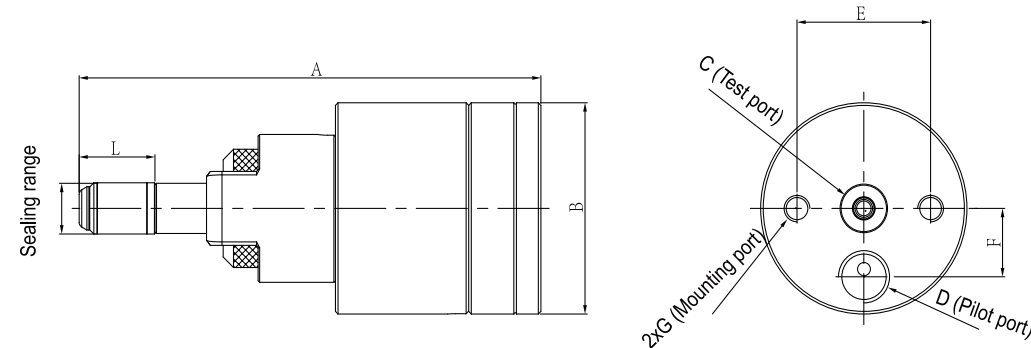


# G15K

## Pneumatic internal expansion connectors

One-stop connection solution

Fast replacement | Automation | Internal expansion | Compact size | Diversified seal materials



| Part Number | Sealing Range | Dim A | Dim B | Dim      | Dim D    | Dim E | Dim  | Dim G | Dim L | Main Seals Package** |
|-------------|---------------|-------|-------|----------|----------|-------|------|-------|-------|----------------------|
| G15K-0080   | 8.0 - 8.5     | 72.7  | 33.5  | M5       | M5       | 20.3  | 10   | M5    | 13.1  | SG150080             |
| G15K-0085   | 8.5 - 9.5     |       |       |          |          |       |      |       |       | SG150085             |
| G15K-0095   | 9.5 - 10.5    |       |       |          |          |       |      |       |       | SG150095             |
| G15K-1100   | 10.5 - 11.5   | 90    | 40    | 1/8"BSPP | 1/8"BSPP | 25.9  | 13   | M6    | 15.3  | SG151100             |
| G15K-1110   | 11.5 - 12.5   |       |       |          |          |       |      |       |       | SG151110             |
| G15K-1120   | 12.5 - 13.5   |       |       |          |          |       |      |       |       | SG151120             |
| G15K-1130   | 13.5 - 14.5   |       |       |          |          |       |      |       |       | SG151130             |
| G15K-1140   | 14.5 - 15.5   |       |       |          |          |       |      |       |       | SG151140             |
| G15K-1150   | 15.5 - 17.0   |       |       |          |          |       |      |       |       | SG151150             |
| G15K-2160   | 17.0 - 18.0   | 90    | 40    | 1/8"BSPP | 1/8"BSPP | 25.9  | 13   | M6    | 15.3  | SG152160             |
| G15K-2170   | 18.0 - 19.0   |       |       |          |          |       |      |       |       | SG152170             |
| G15K-2180   | 19.0 - 20.0   |       |       |          |          |       |      |       |       | SG152180             |
| G15K-2190   | 20.0 - 21.0   |       |       |          |          |       |      |       |       | SG152190             |
| G15K-2200   | 21.0 - 22.0   |       |       |          |          |       |      |       |       | SG152200             |
| G15K-2210   | 22.0 - 23.0   |       |       |          |          |       |      |       |       | SG152210             |
| G15K-3220   | 23.0 - 24.0   | 91    | 60    | 1/8"BSPP | 1/8"BSPP | 40.6  | 18.3 | M6    | 24.5  | SG153220             |
| G15K-3230   | 24.0 - 25.0   |       |       |          |          |       |      |       |       | SG153230             |
| G15K-3240   | 25.0 - 26.0   |       |       |          |          |       |      |       |       | SG153240             |
| G15K-3250   | 26.0 - 27.0   |       |       |          |          |       |      |       |       | SG153250             |
| G15K-3260   | 27.0 - 28.0   |       |       |          |          |       |      |       |       | SG153260             |
| G15K-3270   | 28.0 - 29.0   |       |       |          |          |       |      |       |       | SG153270             |
| G15K-4280   | 29.0 - 30.0   | 91    | 60    | 1/8"BSPP | 1/8"BSPP | 40.6  | 18.3 | M6    | 24.5  | SG154280             |
| G15K-4290   | 30.0 - 31.0   |       |       |          |          |       |      |       |       | SG154290             |
| G15K-4300   | 31.0 - 32.0   |       |       |          |          |       |      |       |       | SG154300             |
| G15K-4310   | 32.0 - 33.0   |       |       |          |          |       |      |       |       | SG154310             |
| G15K-4320   | 33.0 - 34.0   |       |       |          |          |       |      |       |       | SG154320             |
| G15K-4330   | 34.0 - 35.0   |       |       |          |          |       |      |       |       | SG154330             |

1. Nonstandard models of G15K quick connectors include: larger dimensions (up to 80mm), longer center rod, larger OD of the termination port, shorter seal thickness, etc.

2. Customized models of G15K quick connectors include: sealing various threads, smaller sizes, complex shapes, etc.

Please contact your local distributor or GripSeal sales representative for more information.

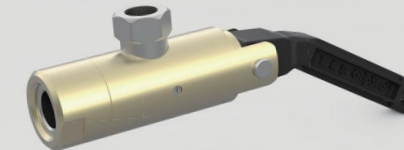
# G20A

## Low pressure external connectors

One-stop connection solution

Low pressure application | Externally enclosed | No damage to surface | Lever actuated operation | Wide sealing range

G20A series low pressure external connectors are applicable to test the sealing tubes with air pressure below 3 bar. The seal expansion method is adopted to form a radial sealing surface on the connected fittings, which offers a favorable sealing effect and does not cause any damage to the appearance of the test piece. The lever allows for easy operation, and the adaptive spring extends the service life of the seal.



### Low pressure external connectors

- \* Externally enclosed connection, allowing for a high flow rate
- \* Lever actuated operation, reducing operation intensity
- \* Aluminum alloy body, which is light and reliable
- \* Adaptive spring

### Features of G20A series quick connectors

#### 1. External sealing

Seal expansion on the outer diameter of the test tuber creates a radial sealing surface, which features a large sealing surface and reliable and stable sealing effect.

#### 2. Adaptive spring

The spring can be automatically adjusted to control the amount of seal expansion. In this way, while the service life of the seal is ensured, the connector can be used for different pipe diameters.

#### 3. No damage to the surface

The rubber seal is in contact with the sealing surface, without hard contact, to protect the appearance of the test tube.

#### 4. Simple maintenance

No tools are required to disassemble the connector, which facilitates subsequent maintenance.

#### 5. Lever actuated operation

The lever is injection molded, lightweight, wear-resistant, and reduces operating intensity, making it friendly to operators.

#### G20 bodies



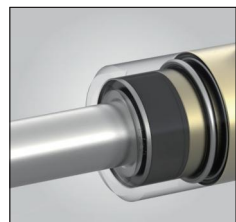


# G20A Low pressure external connectors

One-stop connection solution

Low pressure application | Externally enclosed | No damage to surface | Lever actuated operation | Wide sealing range

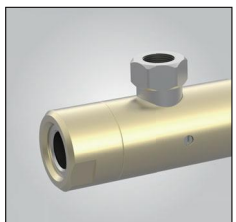
## Advantages of G20A quick connectors



External seal:  
Scratch-free to the  
product & optional  
materials



Adaptive spring:  
Automatically  
adjusting the  
compression force of  
the seal & extending  
the service life



Aluminum alloy body:  
Light and robust &  
low operating  
intensity

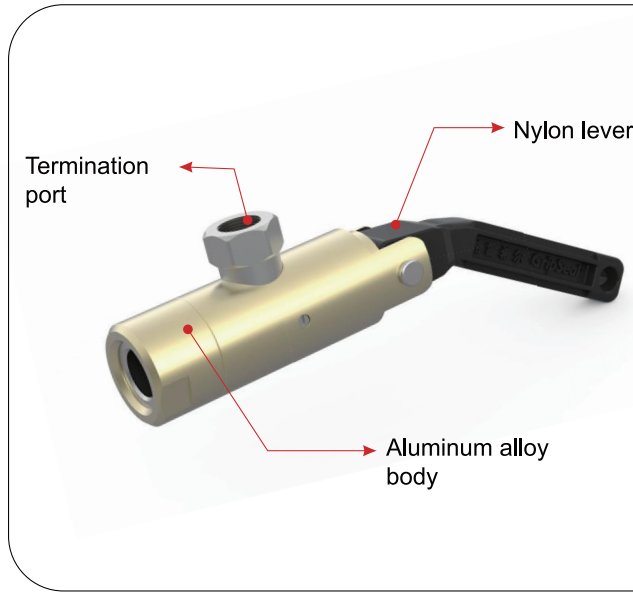


No tools needed for  
disassembly & easy  
maintenance



Lever actuated  
operation:  
Simple and  
effortless

## Specifications of G20A quick connectors



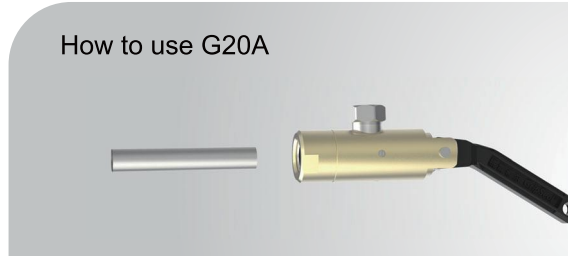
Termination port

Nylon lever

Aluminum alloy body

|                        |                              |
|------------------------|------------------------------|
| Max operation pressure | From Vacuum to 3 Bar         |
| Sealing range          | See the specification sheet. |
| Termination port       | 1/8"BSPP, 3/8"BSPP           |
| Material of main body  | Aluminum alloy               |
| Main seal              | Neoprene, silicone           |
| Operation temperature  | -20°C - 120°C                |

### How to use G20A



1. Put the front end of the connector onto the pipe fitting that needs to be sealed.



2. Turn down the lever for sealing.

# G20A Low pressure external connectors

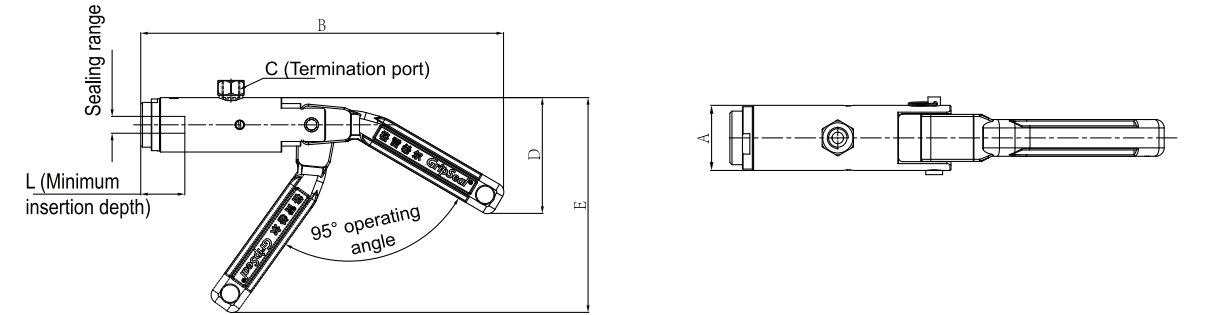
One-stop connection solution

Low pressure application | Externally enclosed | No damage to surface | Lever actuated operation | Wide sealing range

## Applications



Engine cooling tube



| Part Number | Sealing Range | Dim A | Dim B | Dim C    | Dim D | Dim E | Insertion Depth (L) | Main Seals Package** |
|-------------|---------------|-------|-------|----------|-------|-------|---------------------|----------------------|
| G20A-0007D  | 0.8 - 1.3     | 29.7  | 206.9 | 1/8"BSPP | 65.7  | 124.4 | 15.4                | SG20A0007D           |
| G20A-0013D  | 1.3 - 2.0     |       |       |          |       |       |                     | SG20A0013D           |
| G20A-0020D  | 2.0 - 3.3     |       |       |          |       |       |                     | SG20A0020D           |
| G20A-0025   | 2.5 - 4.5     |       |       |          |       |       |                     | SG20A0025            |
| G20A-0045   | 4.5 - 6.5     |       |       |          |       |       |                     | SG20A0045            |
| G20A-0065   | 6.5 - 8.5     |       |       |          |       |       |                     | SG20A0065            |
| G20A-0075   | 7.5 - 9.5     |       |       |          |       |       |                     | SG20A0075            |
| G20A-0085   | 8.5 - 10.5    |       |       |          |       |       |                     | SG20A0085            |
| G20A-0095   | 9.5 - 11.5    |       |       |          |       |       |                     | SG20A0095            |
| G20A-0105   | 10.5 - 13.0   |       |       |          |       |       |                     | SG20A0105            |
| G20A-1110   | 11.0 - 13.0   | 37.5  | 214.3 | 3/8"BSPP | 72.2  | 128.3 | 15.6                | SG20A1110            |
| G20A-1130   | 13.0 - 15.0   |       |       |          |       |       |                     | SG20A1130            |
| G20A-1150   | 15.0 - 17.0   |       |       |          |       |       |                     | SG20A1150            |
| G20A-1160   | 16.0 - 18.0   |       |       |          |       |       |                     | SG20A1160            |
| G20A-1170   | 17.0 - 19.0   |       |       |          |       |       |                     | SG20A1170            |
| G20A-1180   | 18.0 - 20.0   |       |       |          |       |       |                     | SG20A1180            |
| G20A-1190   | 19.0 - 21.0   |       |       |          |       |       |                     | SG20A1190            |
| G20A-1210   | 21.0 - 23.0   |       |       |          |       |       |                     | SG20A1210            |



The G20F series is a connector designed for explosion-proof valves, and is widely used in various battery packs. To use the connector, simply align it with the bayonet of the explosion-proof valve and turn down the lever.



### Explosion-proof valve sealing and connection solution

- \* Secured by a hook, which is safe and reliable
- \* Lever actuated operation, which is simple and effortless
- \* Aluminum alloy body, which is light and reliable
- \* Adjusting nut to extend the service life
- \* Magnet/suction cup for valve opening to facilitate ventilation

Features of G20F series quick connectors

1. Lever actuated operation
- Simply align it with the bayonet of the explosion-proof valve and turn down the lever by 90° for sealing.
2. Surface sealing
- The sealing is reliable, and it is easy to replace the seal and convenient to maintain.
3. Magnet/suction cup design
- The magnet/suction cup is used to open the valve, which facilitates ventilation.
4. Aircraft-grade aluminum
- The connector shell is made of aircraft-grade aluminum, which is lightweight and durable, ensuring the service life of the connector while reducing operational load.

Body sizes



G20F-PBA2K-42

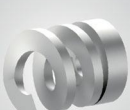


G20F-PBAL-M40

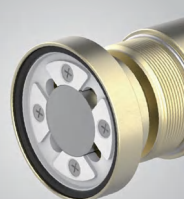


G20F-PMCM12

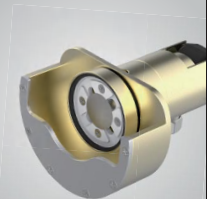
Advantages of G20F quick connectors



Adaptive spring:  
Automatically adjusting the compression force of the seal to extend the service life



Magnet/suction cup design:  
Used to open the valve and facilitate ventilation



Surface sealing:  
Reliable and easy to replace the seal



Aluminum alloy body:  
Lightweight and durable & reducing operational load



Lever actuated operation:  
Simple and effortless

Specifications of G20F quick connectors



Safety rope hole  
Lever  
Aluminum alloy body  
Magnet  
Locking ring  
G1/8 termination port  
Seal  
Hook

|                        |                                                   |
|------------------------|---------------------------------------------------|
| Max operation pressure | From Vacuum to 50Kpa                              |
| Sealing range          | Customized according to the explosion-proof valve |
| Termination port       | 1/8"BSPP thread hole                              |
| Material of main body  | Aluminum alloy                                    |
| Main seal              | Neoprene                                          |
| Valve opening          | Magnet/suction cup                                |
| Operation temperature  | -20℃ - 120℃                                       |

How to use G20F



1. Put the front end of the connector onto the explosion-proof valve that needs to be sealed.



2. Turn the lever to form the sealing.



# G20F Explosion-proof valve connectors

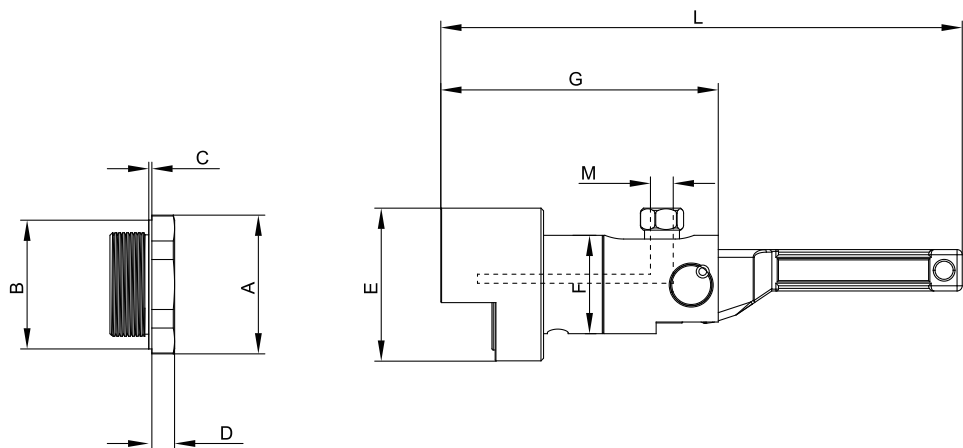
One-stop connection solution

Low pressure application | No damage to surface | Lever actuated operation

## Applications



Explosion-proof valve

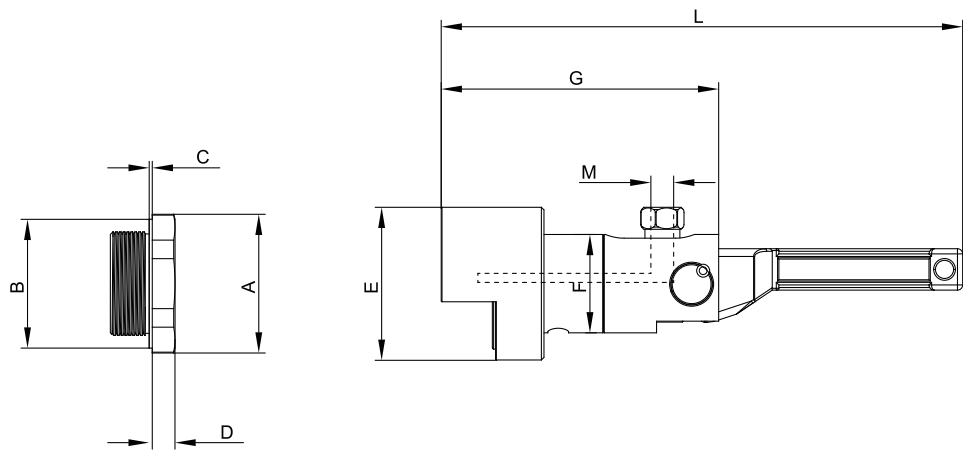


| Explosion-Proof Valve Model | Part Number        | Dim A | Dim B | Dim C | Dim D | Dim E | Dim F | Dim G | Dim L | Termination Port F | Main Seals Package** |
|-----------------------------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|----------------------|
| PBA2K-42                    | G20F-PBA2K-42      | 41.8  | 69.9  | 1.8   | 6.1   | 83.8  | 38    | 95.8  | 190   | 1/8"BSPP           | SG20F-PBA2K-42       |
| PBA2K-50G                   | G20F-PBA2K-50G     | 49.8  | 47.4  | 1.5   | 4.5   | 64.5  | 38    | 98    | 192.2 | 1/8"BSPP           | SG20F-PBA2K-50G      |
| PBA2K-60                    | G20F-PBA2K-60      | 59.8  | 57.6  | 1.6   | 4.6   | 73.5  | 38    | 93.8  | 188   | 1/8"BSPP           | SG20F-PBA2K-60       |
| PBA2K-60G                   | G20F-PBA2K-60G     | 59.8  | 57.6  | 1.6   | 4.6   | 73.5  | 38    | 93.8  | 188   | 1/8"BSPP           | SG20F-PBA2K-60G      |
| PB04A2K-60GTP               | G20F-PB04A2K-60GTP | 59.8  | 57.6  | 1.6   | 4.6   | 73.5  | 38    | 93.8  | 188   | 1/8"BSPP           | SG20F-PB04A2K-60GTP  |
| PBA2K-70                    | G20F-PBA2K-70      | 70    | 67    | 2     | 6.5   | 83.8  | 38    | 100.2 | 194.4 | 1/8"BSPP           | SG20F-PBA2K-70       |
| PB04A4K-70-8T               | G20F-PB04A4K-70-8T | 70    | 67    | 2     | 6.5   | 83.8  | 38    | 100.2 | 194.4 | 1/8"BSPP           | SG20F-PB04A4K-70-8T  |
| PBA4K-70                    | G20F-PBA4K-70      | 70    | 67    | 2     | 6.5   | 83.8  | 38    | 100.2 | 194.4 | 1/8"BSPP           | SG20F-PBA4K-70       |
| PBA4K-50                    | G20F-PBA4K-50      | 49.6  | 46.6  | 2     | 5.3   | 58    | 38    | 98.5  | 192.7 | 1/8"BSPP           | SG20F-PBA4K-50       |
| PMCM-12*1.5                 | G20F-PMCM-M12E     | 21    | 18.2  | 1     | 5.8   | 26    | -     | -     | 49    | -                  | SG20F-PMCM-M12E      |
| PMCM-12*1.5                 | G20F-PMCM-M12E-B   | 21    | 18.2  | 1     | 5.8   | 28    | 38    | 89    | 183.2 | 1/8"BSPP           | SG20F-PMCM-M12E-B    |

# G20F Explosion-proof valve connectors

One-stop connection solution

Low pressure application | No damage to surface | Lever actuated operation



| Explosion-Proof Valve Model | Part Number     | Dim A | Dim B | Dim C | Dim D | Dim E | Dim F | Dim G | Dim L | Termination Port F | Main Seals Package** |
|-----------------------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|----------------------|
| PBAL-M20E                   | G20F-PBAL-M20E  | 30.3  | 27.9  | 1.5   | 8     | 36    | 38    | 90.9  | 184   | 1/8"BSPP           | SG20F-PBAL-M20E      |
| PBAL-M32E                   | G20F-PBAL-M32E  | 46    | 42    | 2.5   | 7.5   | 58    | 38    | 99.2  | 193.4 | 1/8"BSPP           | SG20F-PBAL-M32E      |
| PBAL-M40E                   | G20F-PBAL-M40E  | 53.6  | 49.8  | 1.2   | 8.8   | 58    | 38    | 107.2 | 201.4 | 1/8"BSPP           | SG20F-PBAL-M40E      |
| VALVE-M12E                  | G20F-VALVE-M12E | 17    | 17    | 1     | 10    | 34    | 38    | 57.5  | 149.4 | 1/8"BSPP           | SG20F-VALVE-M12E     |
| VEM378A                     | G20F-VEM378A    | 41.8  | 69.9  | 1.8   | 6.1   | 83.8  | 38    | 95.8  | 190   | 1/8"BSPP           | SG20F-VEM378A        |
| VEM482                      | G20F-VEM482     | 50.7  | 47.1  | 1.8   | 6     | 58    | 38    | 99.2  | 193.4 | 1/8"BSPP           | SG20F-VEM482         |
| VEM482V                     | G20F-VEM482V    | 50.7  | 47.1  | 1.8   | 6     | 58    | 38    | 99.2  | 193.4 | 1/8"BSPP           | SG20F-VEM482V        |
| VEM558                      | G20F-VEM558     | 54    | 48    | 2     | 9.5   | 72    | 38    | 107   | 201.2 | 1/8"BSPP           | SG20F-VEM558         |
| VEM569A                     | G20F-VEM569A    | 59.8  | 57.6  | 1.6   | 4.6   | 73.5  | 38    | 93.8  | 188   | 1/8"BSPP           | SG20F-VEM569A        |
| VEM573                      | G20F-VEM573     | 50.7  | 47.1  | 1.8   | 6     | 58    | 38    | 99.2  | 193.4 | 1/8"BSPP           | SG20F-VEM573         |
| VEM582                      | G20F-VEM582     | 30.3  | 27.9  | 1.5   | 8     | 36    | 38    | 90.9  | 185.1 | 1/8"BSPP           | SG20F-VEM582         |
| VEM621                      | G20F-VEM621     | 49.6  | 46.6  | 2     | 5.3   | 58    | 38    | 98.5  | 192.7 | 1/8"BSPP           | SG20F-VEM621         |
| VEP725A                     | G20F-VEP725A    | 56.3  | 80.7  | 4.8   | 16.2  | 97    | 38    | 63.2  | 157.4 | 1/8"BSPP           | SG20F-VEP725A        |
| Voir-M16E                   | G20F-Voir-M16E  | 20    | 22.5  | 2     | 10.8  | 42    | 38    | 92.1  | 186.3 | 1/8"BSPP           | SG20F-Voir-M16E      |
| Voir-M20E                   | G20F-Voir-M20E  | 30.3  | 27.9  | 1.5   | 8     | 36    | 38    | 90.9  | 148   | 1/8"BSPP           | SG20F-Voir-M20E      |

## Special applications





# G25A Internal expansion connectors

One-stop connection solution

Low pressure test | Easy to replace | Economical | Full range of models | Quick operation | Diversified seal materials

The G25A series internal expansion quick connectors can be used to seal a wide variety of internal bores and pipes. The sealing surface can produce an effective sealing effect regardless of whether it is a machined surface or cast surface. This series of connectors can provide reliable sealing without gripping.

## Low-cost internal expansion connection solution



- \* Low pressure sealing connector, which features simple operation
- \* Instance connection and lever actuated operation, which is simple and reliable
- \* Seals material, exquisite and reliable, causing no damage to the product surface
- \* Simple structure, which facilitates seal replacement and extends the service life

## Features of G25A series quick connectors

### 1. Adaptive sealing

The spring inside the connector is used to compress the front sealing, so that the connector can automatically adjust the compression force according to the sealing aperture, ensuring the tight sealing.

### 2. Lever actuated operation

To achieve a sealed connection, simply insert the seal in front of the connector into the test port and turn the lever by 90°.

### 3. G threaded test port

The G1/8 threaded test port on the lateral side is more suitable for international applications.

### 4. Aircraft-grade aluminum

The connector shell is made of aircraft-grade aluminum, which is lightweight and durable, ensuring the service life of the connector while reducing operational load.

The connector is available in four body sizes, and can be used to seal pipes with ODs ranging from 10mm to 34mm.

### Body sizes



BS1



BS2



BS3



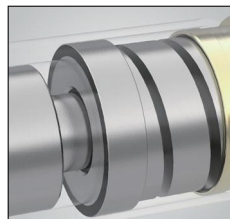
BS4

# G25A Internal expansion connectors

One-stop connection solution

Low pressure test | Easy to replace | Economical | Full range of models | Quick operation | Diversified seal materials

## Advantages of G25A quick connectors



Adaptive spring:  
Automatically adjusting the compression force of the seal to extend the service life



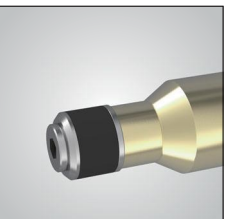
Low pressure thread sealing:  
Can be used for sealing of low-pressure threaded holes



Extended neck pad:  
Enabling the seal to go deeply into the hole to avoid the groove on end face

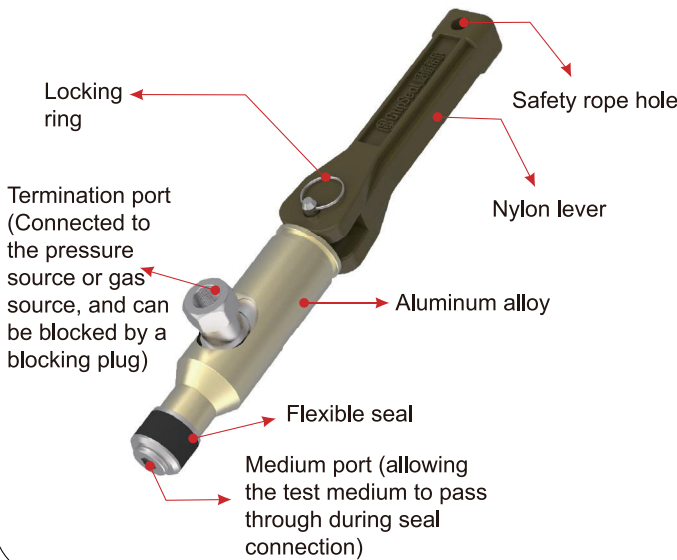


Diversified seal materials:  
Different materials to meet specific customer needs



Nut-free locking:  
Can be used for shallower sealing holes, with a wide range of applications

## Specifications of G25A quick connectors



|                        |                                  |
|------------------------|----------------------------------|
| Max operation pressure | From Vacuum to 3 Bar             |
| Sealing range          | 10mm - 34mm                      |
| Minimize insert depth  | BS1, BS2: 15mm<br>BS3, BS4: 25mm |
| Termination port       | 1/8"BSPP thread hole             |
| Material of main body  | Aluminum alloy                   |
| Main seal              | Neoprene                         |
| Internal seal          | Buna-N                           |
| Operation temperature  | -20°C - 120°C                    |

### How to use G25A



1. Insert the seal at the front of the connector into the hole that needs to be sealed.



2. Turn down the lever for sealing.



# G25A Internal expansion connectors

One-stop connection solution

Low pressure test | Easy to replace | Economical | Full range of models | Quick operation | Diversified seal materials

## Applications:

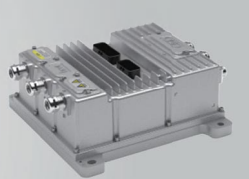
Engine cooling tube test  
Battery water-cooling  
plate test  
Battery pack test  
Motor controller leak test



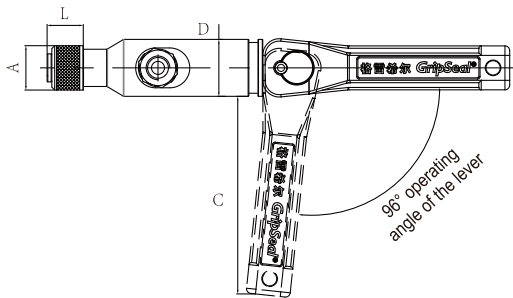
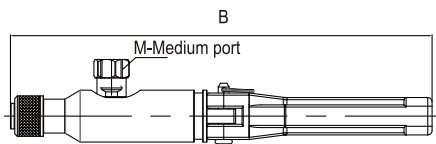
Engine



New energy battery pack



Motor controller



| Part Number | Sealing Range | Dim B | Dim C | Dim D | Dim L | Dim M    | Main Seals Package** |
|-------------|---------------|-------|-------|-------|-------|----------|----------------------|
| G25A-1100   | 10.5 - 11.5   | 194   | 85    | 24    | 14.7  | 1/8"BSPP | SG25A1100            |
| G25A-1110   | 11.5 - 12.5   |       |       |       |       |          | SG25A1110            |
| G25A-1120   | 12.5 - 13.5   |       |       |       |       |          | SG25A1120            |
| G25A-1130   | 13.5 - 14.5   |       |       |       |       |          | SG25A1130            |
| G25A-1140   | 14.5 - 15.5   |       |       |       |       |          | SG25A1140            |
| G25A-1150   | 15.5 - 16.5   | 195   | 85    | 24    | 15.3  | 1/8"BSPP | SG25A1150            |
| G25A-2160   | 16.5 - 17.5   |       |       |       |       |          | SG25A2160            |
| G25A-2170   | 17.5 - 18.5   |       |       |       |       |          | SG25A2170            |
| G25A-2180   | 18.5 - 19.5   |       |       |       |       |          | SG25A2180            |
| G25A-2190   | 19.5 - 20.5   |       |       |       |       |          | SG25A2190            |
| G25A-2200   | 20.5 - 21.5   |       |       |       |       |          | SG25A2200            |
| G25A-2210   | 21.5 - 22.5   |       |       |       |       |          | SG25A2210            |
| G25A-3220   | 22.5 - 23.5   | 216   | 97    | 30    | 24.5  | 1/8"BSPP | SG25A3220            |
| G25A-3230   | 23.5 - 24.5   |       |       |       |       |          | SG25A3230            |
| G25A-3240   | 24.5 - 25.5   |       |       |       |       |          | SG25A3240            |
| G25A-3250   | 25.5 - 26.5   |       |       |       |       |          | SG25A3250            |
| G25A-3260   | 26.5 - 27.5   |       |       |       |       |          | SG25A3260            |
| G25A-3270   | 27.5 - 28.5   |       |       |       |       |          | SG25A3270            |
| G25A-4280   | 28.5 - 29.5   | 217   | 97    | 30    | 25.3  | 1/8"BSPP | SG25A4280            |
| G25A-4290   | 29.5 - 30.5   |       |       |       |       |          | SG25A4290            |
| G25A-4300   | 30.5 - 31.5   |       |       |       |       |          | SG25A4300            |
| G25A-4310   | 31.5 - 32.5   |       |       |       |       |          | SG25A4310            |
| G25A-4320   | 32.5 - 33.5   |       |       |       |       |          | SG25A4320            |
| G25A-4330   | 33.5 - 34.5   |       |       |       |       |          | SG25A4330            |

Note: 1. The bore must be deep enough to fit the seal at the front of the connector.  
2. The main seals package contains materials that can be used for replacement for up to 5 times.

# G25P Internal expansion connectors

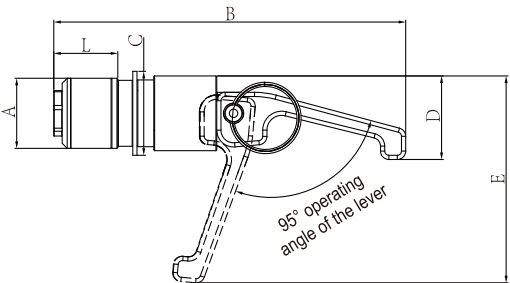
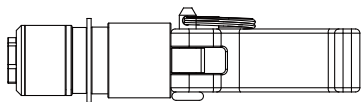
One-stop connection solution

Low pressure test | Easy to replace | Economical | Full range of models | Quick operation | Diversified seal materials

## Low-cost internal expansion connection solution



- \* Low pressure sealing connector, which features simple operation
- \* Instance connection and lever actuated operation, which is simple and reliable
- \* Seals material, exquisite and reliable, causing no damage to the product surface
- \* Simple structure, which facilitates seal replacement and extends the service life



| Part Number | Sealing Range | Dim B | Dim C | Dim D | Dim E | Dim L | Main Seals Package** |
|-------------|---------------|-------|-------|-------|-------|-------|----------------------|
| G25P-1100   | 10.5 - 11.5   | 77    | 16.3  | 19.3  | 48.7  | 14.7  | SG25P1100            |
| G25P-1110   | 11.5 - 12.5   |       |       |       |       |       | SG25P1110            |
| G25P-1120   | 12.5 - 13.5   |       |       |       |       |       | SG25P1120            |
| G25P-1130   | 13.5 - 14.5   |       |       |       |       |       | SG25P1130            |
| G25P-1140   | 14.5 - 15.5   |       |       |       |       |       | SG25P1140            |
| G25P-1150   | 15.5 - 16.5   | 83.8  | 18    | 19.9  | 49.3  | 15.3  | SG25P1150            |
| G25P-2160   | 16.5 - 17.5   |       | 20    |       |       |       | SG25P2160            |
| G25P-2170   | 17.5 - 18.5   |       | 24    |       |       |       | SG25P2170            |
| G25P-2180   | 18.5 - 19.5   |       |       |       |       |       | SG25P2180            |
| G25P-2190   | 19.5 - 20.5   |       |       |       |       |       | SG25P2190            |
| G25P-2200   | 20.5 - 21.5   |       |       |       |       |       | SG25P2200            |
| G25P-2210   | 21.5 - 22.5   |       |       |       |       |       | SG25P2210            |



# G25F Electrical connector

One-stop connection solution

Low pressure test | Easy to replace | Economical | Full range of models | Quick operation | Diversified seal materials

The G25F series is a type of electrical connector used for Leak testing. Communication/electrical testing is required. For details, check the catalog of the E10 series. The inner wall of the electrical connector is sealed by expanding the seal. The overall length of the connector is relatively short to prevent its own length and weight from affecting the sealing performance.



## Electrical connector test connection solution

- \* Sliding sleeve for locking and preventing popping out
- \* Relatively short body to prevent tipping over
- \* Lever actuated operation, which is simple, effortless, and self-locked to prevent rebound
- \* Turnable lever to facilitate operation
- \* Aluminum alloy body, which is light and reliable
- \* Adjusting nut to extend the service life

## Features of G25F series quick connectors

### 1. Lever actuated operation

Simply align it with the electric connector, and turn down the lever by 90° to achieve a sealed connection.

### 2. Sealing through expansion

The sealing is reliable, and it is easy to replace the seal and convenient to maintain.

### 3. Two versions available

Two versions are available: ventilation (G25F) and occlusion (G25FD). The occlusion version has fewer sealing points and features more stable testing performance.

### 4. Aircraft-grade aluminum

The connector shell is made of aircraft-grade aluminum, which is lightweight and durable, ensuring the service life of the connector while reducing operational load.

### 5. Pneumatic version G15F

G15F is designed for automation or pneumatic connection applications. It can achieve fast sealing of electrical connectors through pneumatic drive.

Body sizes



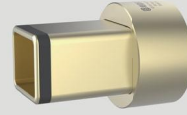
G25F-KF2821



G25F-F5546



G15-F2818



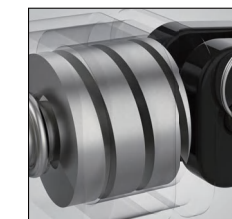
G15-F4238

# G25F Electrical connector

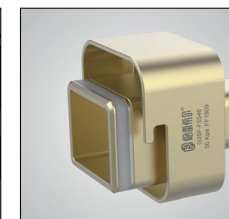
One-stop connection solution

Low pressure test | Easy to replace | Economical | Full range of models | Quick operation | Diversified seal materials

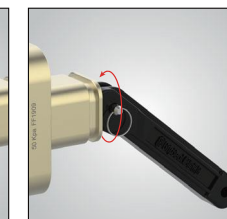
## Advantages of G25F quick connectors



Adaptive spring:  
Automatically  
adjusting the  
compression force of  
the seal to extend  
the service life



Sliding sleeve  
locking:  
For locking and  
preventing popping  
out



Turnable lever:  
Facilitating operation

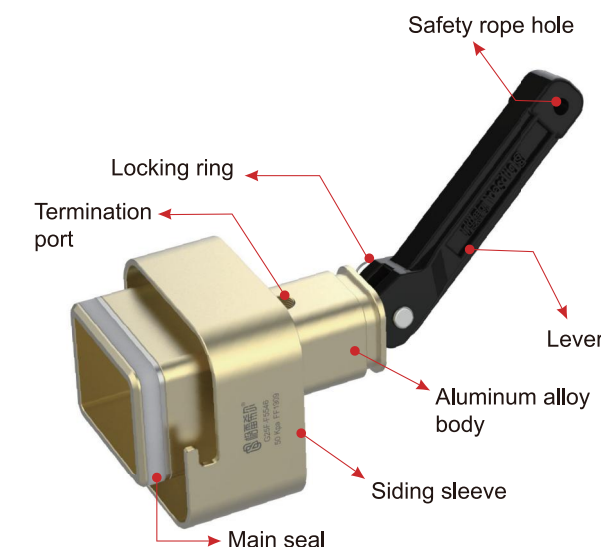


Aluminum alloy body:  
Lightweight and  
durable & reducing  
operational load



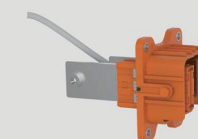
Lever actuated  
operation:  
Simple, effortless,  
and self-locked to  
prevent rebound

## Specifications of G25F quick connectors

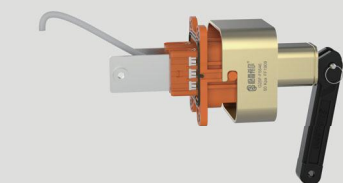


|                        |                                                                |
|------------------------|----------------------------------------------------------------|
| Max operation pressure | From Vacuum to 50 Kpa                                          |
| Sealing range          | Customizable according to the size of the electrical interface |
| Termination port       | M5, 1/8"BSPP                                                   |
| Material of main body  | Aluminum alloy                                                 |
| Main seal              | Neoprene, silicone                                             |
| Operation temperature  | -20°C - 120°C                                                  |

## How to use G25F



1. Insert the seal at the front of the connector into the electric connector that needs to be sealed.



2. Lock the sliding sleeve, and turn down the lever to achieve a sealed connection.



# G25F Electrical connector

One-stop connection solution

Low pressure test | Easy to replace | Economical | Full range of models | Quick operation | Diversified seal materials

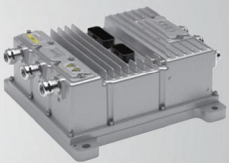
### Applications:

Battery pack test

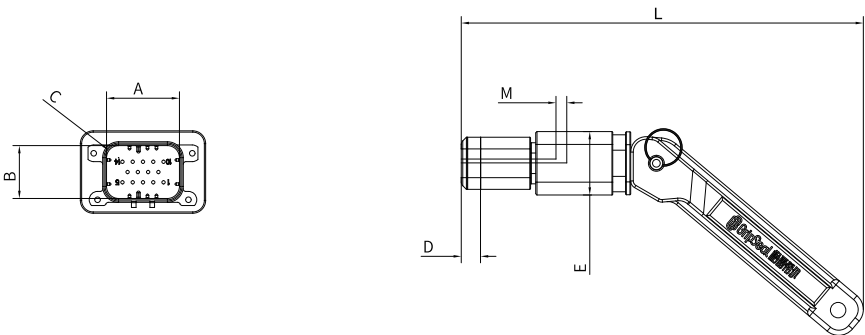
Motor controller leak test



New energy battery pack



Motor controller



| Part Number    | Product Internal Length A | Product Internal Width B | Product Corner Radius C | Dim D | Dim E | Dim L | Termination Port M | Main Seals Package** |
|----------------|---------------------------|--------------------------|-------------------------|-------|-------|-------|--------------------|----------------------|
| G25F-KF2821    | 28.4                      | 20.6                     | 4.7                     | 9     | 24.7  | 143.5 | M5                 | SG25F-KF2821         |
| G25A-F1515     | 14.86                     | 14.86                    | 3.33                    | 8.5   | 30    | 88.3  | 1/8"BSPP           | SG25A-F1515          |
| G25A-F3021R7.1 | 30.2                      | 20.7                     | 7.1                     | 10    | 30    | 232.7 | 1/8"BSPP           | SG25A-F3021R7.1      |
| G25A-F3121     | 30.4                      | 20.1                     | 7.45                    | 11    | 30    | 224.3 | 1/8"BSPP           | SG25A-F3121          |
| G25A-F3220     | 31.9                      | 20.38                    | 3.95                    | 5.5   | 30    | 224   | 1/8"BSPP           | SG25A-F3220          |
| G25A-F4020     | 40.4                      | 20.6                     | 4.7                     | 7.5   | 30    | 210.2 | 1/8"BSPP           | SG25A-F4020          |
| G25A-F4021     | 40                        | 21                       | 3                       | 7.5   | 30    | 205.2 | 1/8"BSPP           | SG25A-F4021          |
| G25A-F4115     | 40.8                      | 15.2                     | 4.4                     | 10    | 30    | 203.7 | 1/8"BSPP           | SG25A-F4115          |
| G25A-F4640     | 46.31                     | 40.41                    | 8.21                    | 9.5   | 30    | 240.7 | 1/8"BSPP           | SG25A-F4640          |
| G25A-F4932     | 49.2                      | 31.7                     | -                       | 10.5  | 30    | 231.7 | 1/8"BSPP           | SG25A-F4932          |
| G25A-F5131     | 50.7                      | 31.3                     | 13.85                   | 10.5  | 30    | 233.2 | 1/8"BSPP           | SG25A-F5131          |
| G25A-F5131     | 51.18                     | 31.78                    | 14.09                   | 10.5  | 30    | 233.2 | 1/8"BSPP           | SG25A-F5131          |
| G25A-F5847     | 58.37                     | 47                       | 10.85                   | 8.5   | 30    | 251.2 | 1/8"BSPP           | SG25A-F5847          |
| G25A-F6333     | 60.4                      | 34.4                     | 17.2                    | 10.5  | 30    | 233.2 | 1/8"BSPP           | SG25A-F6333          |
| G25A-F6440     | 63.42                     | 40.42                    | 20.21                   | 10.5  | 30    | 249.7 | 1/8"BSPP           | SG25A-F6440          |
| G25A-F6636     | 66                        | 36                       | 18                      | 12.7  | 30    | 220.9 | 1/8"BSPP           | SG25A-F6636          |
| G25FD-F3021    | 30                        | 21                       | 3                       | 7.5   | 24.7  | 171.7 | -                  | SG25FD-F3021         |
| G25FD-F4115B   | 40.6                      | 15                       | 4.3                     | 10    | 24.7  | 181.1 | -                  | SG25FD-F4115B        |
| G25F-F2818     | 27.5                      | 18.3                     | 6.55                    | 11.8  | 24.7  | 176.4 | M5                 | SG25F-F2818          |
| G25F-F3834R4.1 | 37.8                      | 33.8                     | 4.1                     | 10.5  | 24.7  | 202.1 | M5                 | SG25F-F3834R4.1      |
| G25F-F4333     | 42.9                      | 32.8                     | 9.15                    | 10.5  | 24.7  | 188.1 | M5                 | SG25F-F4333          |
| G25F-F4535     | 45.4                      | 35.4                     | 6.8                     | 8.5   | 32    | 178.1 | M5                 | SG25F-F4535          |
| G25F-F5242     | 51.75                     | 41.96                    | 6.75                    | 7.5   | 32    | 205.1 | 1/8"BSPP           | SG25F-F5242          |
| G25F-F5546     | 55.4                      | 46.4                     | 5.7                     | 10.5  | 32    | 201.1 | 1/8"BSPP           | SG25F-F5546          |

Note: 1. The bore must be deep enough to fit the seal at the front of the connector.  
2. The main seals package contains materials that can be used for replacement for up to 5 times.

# G30 High pressure external connectors

One-stop connection solution

High pressure test | Collets locking | Full range of models | Quick operation | Diversified seal materials | External seal

G30 series are high pressure connectors, which are the optimal outer diameter connection solution for sealing all kinds of copper, steel and aluminum tubes. They are widely applied in refrigeration and new energy industries, such as heat exchangers, pressure vessels, instruments, meters, motor controller cooling plates, etc.

## High pressure externally gripping connection solutions



- \* Reducing overall manufacturing costs through more efficient testing
- \* Eliminating waste arising from failed tests
- \* Improving the stability throughout the testing process
- \* Metal locking structure to enhance the upper limit of test pressure

## Features of G30 series quick connectors

### 1. Pressure-assisted safety design

The sealing force is strengthened with the increase of test pressure.

### 2. Lever actuated operation

Insert the test tube into the sealing hole at the front of the connector, and turn down the lever by 90° to achieve a sealed connection.

### 3. High hardness collets

The surface of the collet is full of horizontal stripes to increase the force area and provides higher gripping force. The high-hardness collets can be used to grip stainless steel and mild steel.

### 4. British Standard Tapered Pipe (BSPT) threaded test port

The standard ZG1/8 or ZG1/4 threaded test port is more suitable for international applications.

### 5. Easy disconnection

Once the test air pressure is completely released, the lever will be folded back to the original position and the sealing effect will disappear to achieve safe disconnection.

The G30 series connectors are available in multiple types of British models and metric models, offering a sealing range of 6mm to 22.23mm.

### Body sizes





# G30 High pressure external connectors

One-stop connection solution

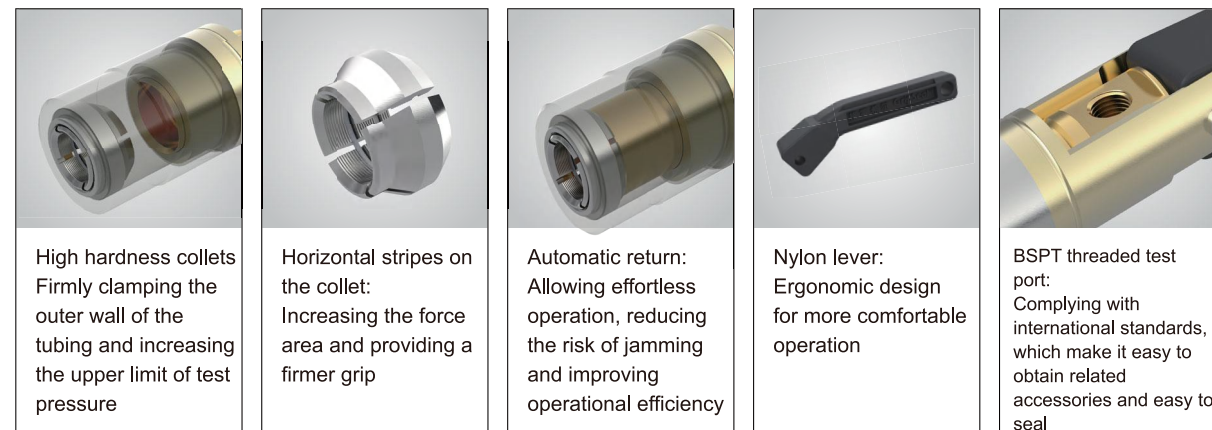
High pressure test | Collets locking | Full range of models | Quick operation | Diversified seal materials | External seal

# G30 High pressure external connectors

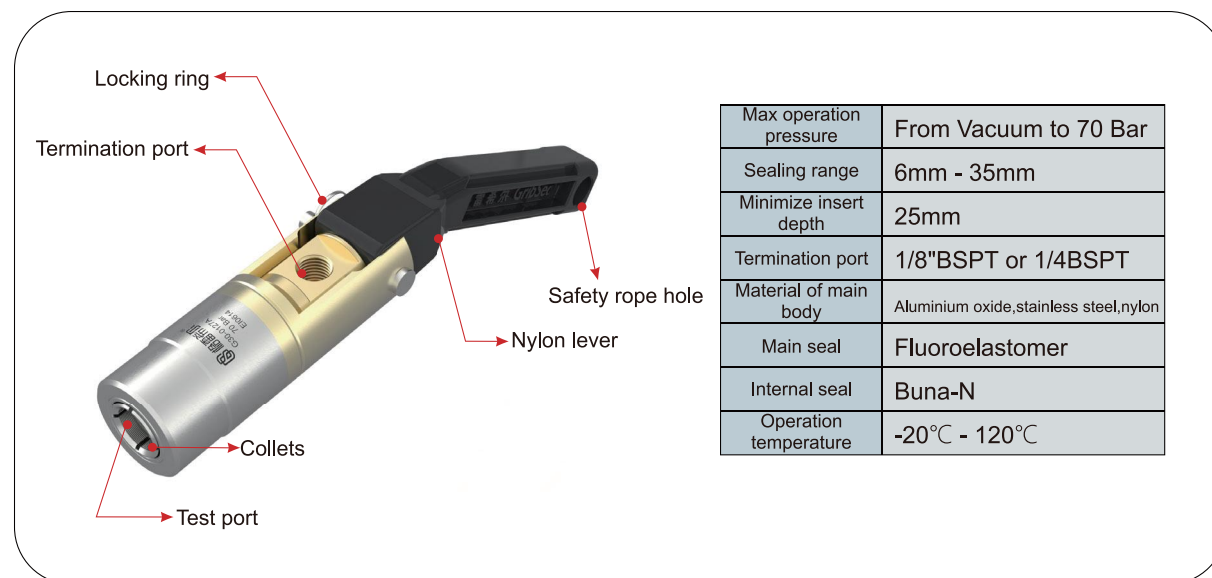
One-stop connection solution

High pressure test | Collets locking | Full range of models | Quick operation | Diversified seal materials | External seal

## Advantages of G30 quick connectors



## Specifications of G30 quick connectors



## How to use G30



1. Insert the test piece into the test port of the connector.

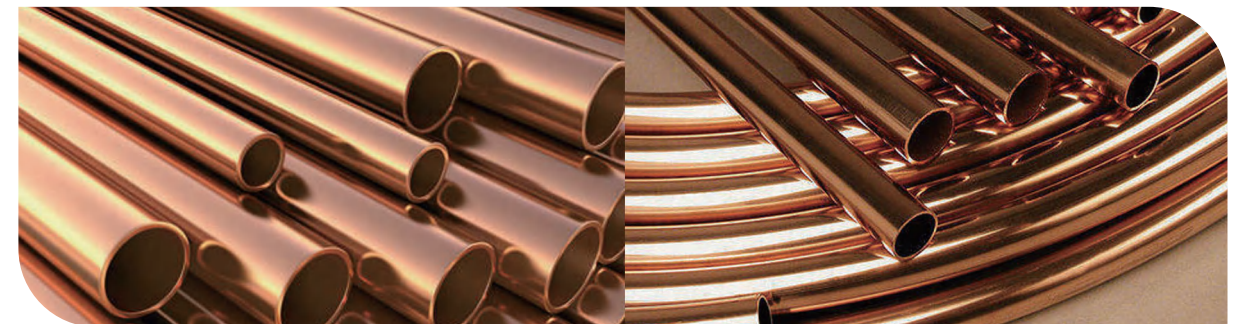


2. Push the test piece into the bottom of the test hole.

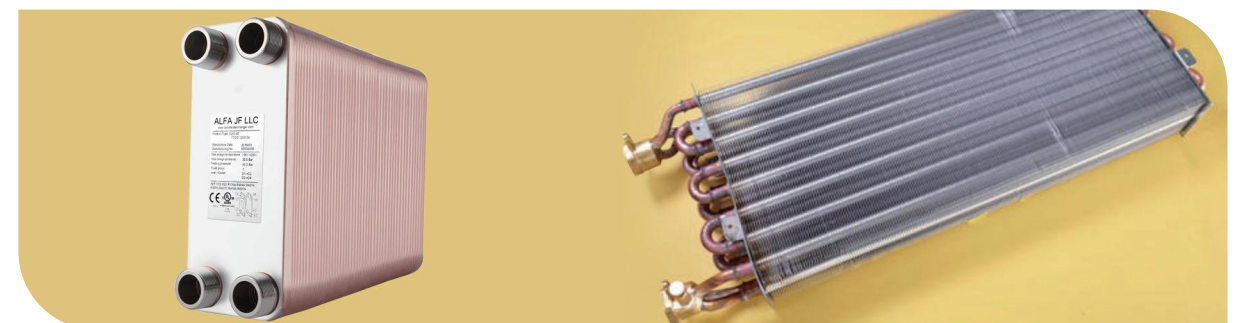


3. Turn the lever to lock the test piece for sealing.

## Applications



Processing tube Leak test



Air conditioner radiator test



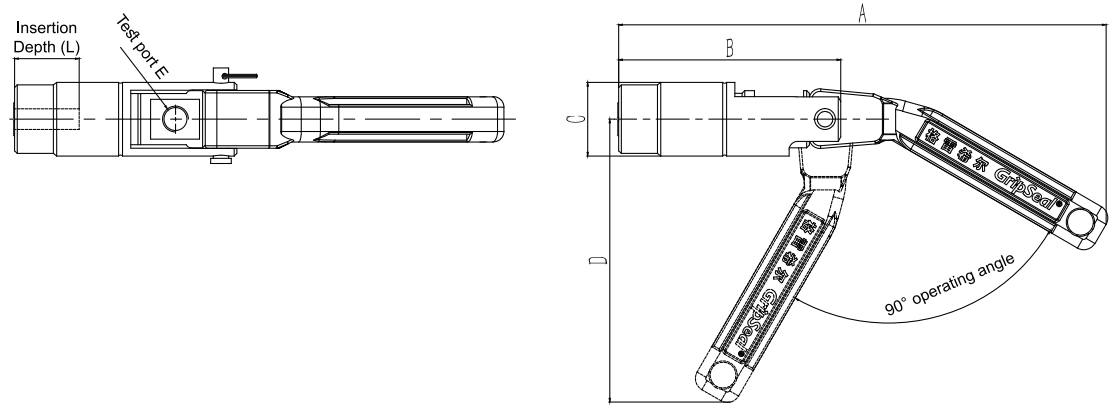
Engine cooling tube test



# G30 High pressure external connectors

One-stop connection solution

High pressure test | Collets locking | Full range of models | Quick operation | Diversified seal materials | External seal



## Inch size Application

| Part Number | Sealing Range (mm)±0.25 | Maximum pressure | Flow diameter | Dim A | Dim B | Dim C | Dim D | Test port E | Dim L | Material of main body | Seals Package | Main Seals Package |  |  |  |
|-------------|-------------------------|------------------|---------------|-------|-------|-------|-------|-------------|-------|-----------------------|---------------|--------------------|--|--|--|
| G30-0063    | 6.35                    | 70 Bar           | 7             | 193   | 89    | 31    | 109.5 | 1/8"BSPT    | 25    | Aluminum alloy        | Viton rubber  | SG300063           |  |  |  |
| G30-0079    | 7.92                    |                  |               |       |       |       |       |             |       |                       |               | SG300079           |  |  |  |
| G30-0095    | 9.52                    |                  |               |       |       |       |       |             |       |                       |               | SG300095           |  |  |  |
| G30-0127    | 12.7                    |                  |               |       |       |       |       |             |       |                       |               | SG300127           |  |  |  |
| G30-1159    | 15.88                   |                  | 10            |       |       | 40    | 109.5 | 1/4"BSPT    |       |                       |               | SG301159           |  |  |  |
| G30-1190    | 19.05                   |                  |               |       |       |       |       |             |       |                       |               | SG301190           |  |  |  |

## Metric size Application

| Part Number | Sealing Range (mm)±0.25 | Maximum pressure | Flow diameter | Dim A | Dim B | Dim C | Dim D    | Test port E | Dim L | Material of main body | Seals Package | Main Seals Package |
|-------------|-------------------------|------------------|---------------|-------|-------|-------|----------|-------------|-------|-----------------------|---------------|--------------------|
| G30-0060    | 6.00                    | 70 Bar           | 7             | 193   | 89    | 31    | 109.5    | 1/8"BSPT    | 25    | Aluminum alloy        | Viton rubber  | SG300060           |
| G30-0080    | 8.00                    |                  |               |       |       |       |          |             |       |                       |               | SG300080           |
| G30-0100    | 10.00                   |                  |               |       |       |       |          |             |       |                       |               | SG300100           |
| G30-0120    | 12.00                   |                  |               |       |       |       |          |             |       |                       |               | SG300120           |
| G30-1140    | 14.00                   |                  | 10            |       |       | 40    | 1/4"BSPT | SG300140    |       |                       |               |                    |
| G30-1160    | 16.00                   |                  |               |       |       |       |          | SG301160    |       |                       |               |                    |
| G30-1180    | 18.00                   |                  |               |       |       |       |          | SG301180    |       |                       |               |                    |

All GripSeal connectors have incorporated safety design into their design. However, the connector users have the responsibility to design their own safety measures to avoid property damage caused by improper size or other reasons. For example, safety chains, protective nets, protective cages, or specialized fixtures are all excellent protective measures. GripSeal can also provide or assist clients in identifying potential security threats.

# G35 High pressure internal expansion connectors

One-stop connection solution

High pressure test | O-ring | Collet locking | Full range of models | Quick operation | Diversified seal materials

G35 series are high pressure connectors, which are the optimal internal connection solution for sealing all kinds of copper, steel and aluminum tubes. They are widely applied in refrigeration and new energy industries, such as heat exchangers, pressure vessels, instruments, meters, motor controller cooling plates, etc.

### Self-locking high pressure internal connection solution

- \* Improving efficiency and reducing production costs
- \* Reliable sealing and long service life
- \* Light weight and efficient, reducing work intensity
- \* Self-locking structure, applicable to the high pressure working environment

## Features of G35 series quick connectors

- 1. Pressure-assisted safety design**  
The sealing force is strengthened with the increase of test pressure.
- 2. Lever actuated operation**  
To achieve a sealed connection, simply insert the seal in front of the connector into the test port and turn the lever by 90°.
- 3. High-hardness collets**  
The surface of the collet is full of horizontal stripes to increase the force area and provides higher gripping force. The high-hardness collets can be used to grip stainless steel and mild steel.
- 4. G/ZG threaded test port**  
The standard G1/8 threaded test port is more suitable for international applications. The ZG thread can be applied to high pressure testing, and features better sealing performance.
- 5. Easy disconnection**  
Once the test air pressure is completely released, the lever will be folded back to the original position and the sealing effect will disappear to achieve safe disconnection.

Dozens of standard models are available to accommodate pipe diameters from 9.52mm to 41.28mm, with other dimensions customizable up to 100mm.

### Body sizes



G35

High pressure internal expansion  
connectors

One-stop connection solution

High pressure test | O-ring | Collet locking | Full range of models | Quick operation | Diversified seal materials

Advantages of G35 quick connectors



Collets: Firmly clamping the inner wall of the tubing and increasing the upper limit of test pressure



Horizontal stripes on collets: Increasing the force area and provide a firmer grip. \* (Only available on BS1 and BS2)



Multi-point sealing: Special jaw shape, multi-point contact provides more clamping force while reducing inner wall scratching

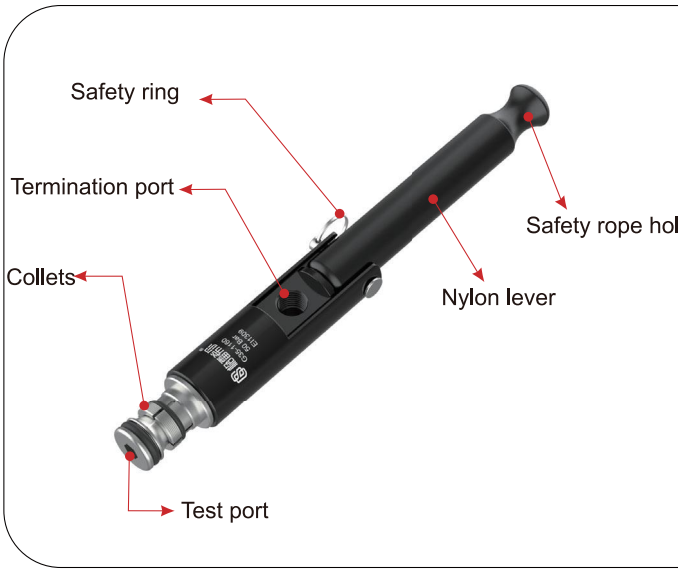


Aircraft-grade aluminum & Nylon lever: Light weight, reducing the work intensity of operators



BSPP termination port: Complying with international standards, which make it easy to obtain related accessories and easy to seal

Specifications of G35 quick connectors



|                        |                                              |
|------------------------|----------------------------------------------|
| Max operation pressure | From Vacuum to 50 Bar or 70 Bar              |
| Sealing range          | 8mm - 100mm                                  |
| Minimize insert depth  | BS0, BS1: 12mm<br>BS2: 23mm                  |
| Termination port       | 1/8"BSPP thread hole or 1/8"BSPT thread hole |
| Material of main body  | Aluminium oxide, stainless steel, nylon      |
| Main seal              | Buna-N                                       |
| Internal seal          | Buna-N                                       |
| Operation temperature  | -20°C - 120°C                                |

How to use G35



1. Align the connector with the interior of the tubing.



2. Insert the connector into the tubing.



3. Turn the lever to lock the test piece for sealing.

G35

High pressure internal expansion  
connectors

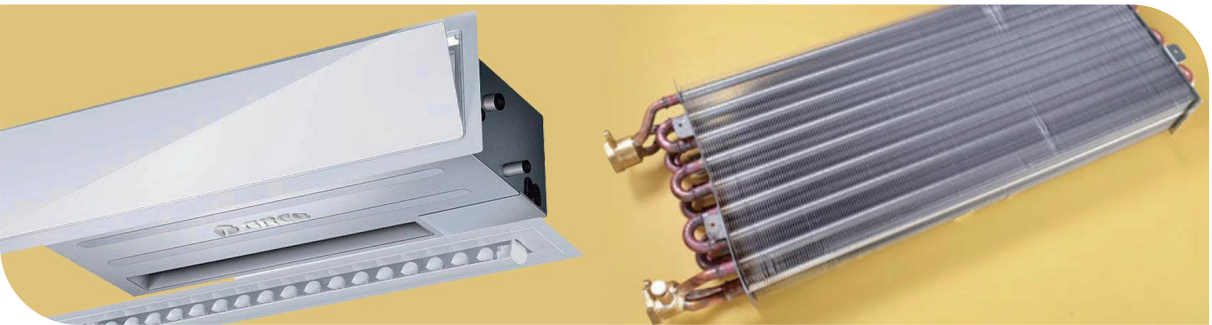
One-stop connection solution

High pressure test | O-ring | Collet locking | Full range of models | Quick operation | Diversified seal materials

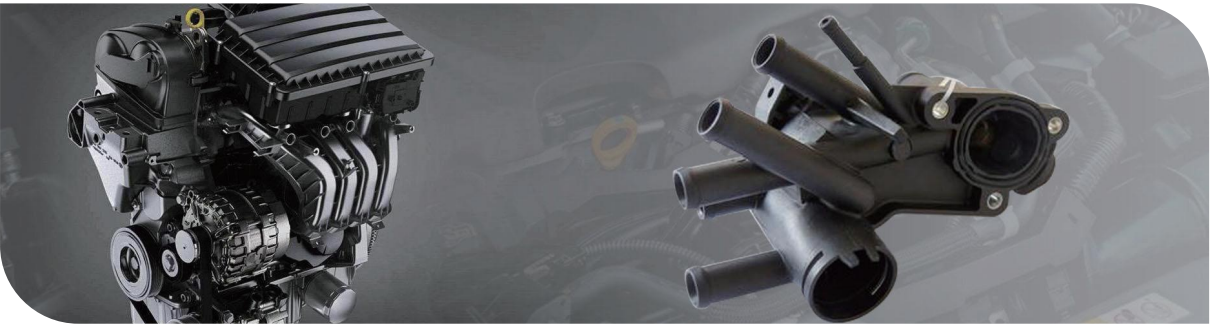
Applications



New energy battery water-cooling plate test



Air conditioner radiator test



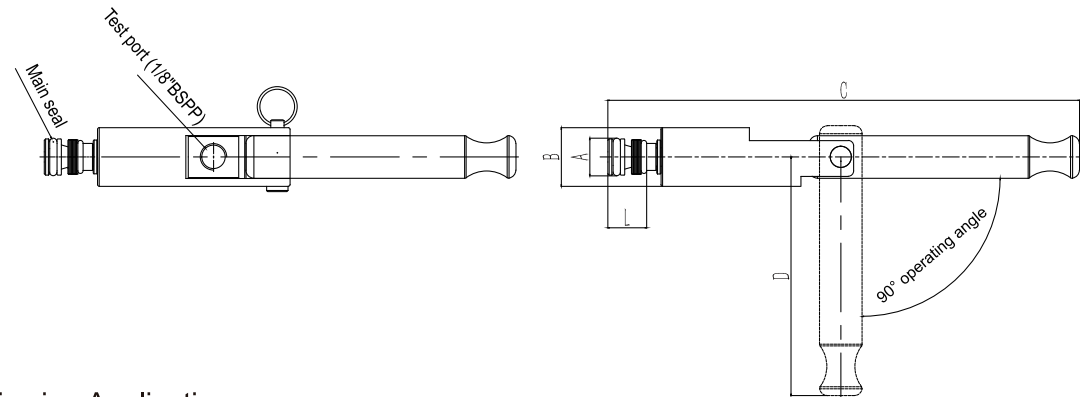
Engine cooling tube test



# G35 High pressure internal expansion connectors

One-stop connection solution

High pressure test | O-ring | Collet locking | Full range of models | Quick operation | Diversified seal materials



## Metric size Application

| Part Number | Sealing Range (mm)±0.25 | Maximum pressure | Flow diameter | Dim B | Dim C | Dim D | Insertion Depth (L) | Material of main body | Seals Package | Main Seals Package |          |
|-------------|-------------------------|------------------|---------------|-------|-------|-------|---------------------|-----------------------|---------------|--------------------|----------|
| G35-0100    | 10.00                   | 50Bar            | 2.8mm         |       | 177   |       | 12                  | Aluminum alloy        | Buna-N        | SG350100           |          |
| G35-0110    | 11.00                   |                  |               |       |       |       |                     |                       |               | SG350110           |          |
| G35-0120    | 12.00                   |                  |               |       |       |       |                     |                       |               | SG350120           |          |
| G35-0130    | 13.00                   |                  |               |       |       |       |                     |                       |               | SG350130           |          |
| G35-0140    | 14.00                   |                  |               |       |       |       |                     |                       |               | SG350140           |          |
| G35-1150    | 15.00                   |                  | 4.0mm         |       | 22    |       | 90                  |                       |               | 14.5               | SG351150 |
| G35-1160    | 16.00                   |                  |               |       |       |       |                     |                       |               |                    | SG351160 |
| G35-1170    | 17.00                   |                  |               |       |       |       |                     |                       |               |                    | SG351170 |
| G35-1180    | 18.00                   |                  |               |       |       |       |                     |                       |               |                    | SG351180 |
| G35-1190    | 19.00                   |                  |               |       |       |       |                     |                       |               |                    | SG351190 |
| G35-1200    | 20.00                   |                  |               |       |       |       |                     |                       |               |                    | SG351200 |
| G35-1210    | 21.00                   |                  |               |       |       |       |                     |                       |               |                    | SG351210 |
| G35-1220    | 22.00                   |                  |               |       |       |       |                     |                       |               |                    | SG351220 |
| G35-1230    | 23.00                   |                  |               |       |       |       |                     |                       |               |                    | SG351230 |

## Inch size Application

| Part Number | Sealing Range (mm)±0.25 | Maximum pressure | Flow diameter | Dim B | Dim C | Dim D | Insertion Depth (L) | Material of main body | Seals Package | Main Seals Package |
|-------------|-------------------------|------------------|---------------|-------|-------|-------|---------------------|-----------------------|---------------|--------------------|
| G35-0095    | 9.52                    | 50Bar            | 2.8mm         | 22    | 177   | 90    | 12                  | Aluminum alloy        | Buna-N        | SG350095           |
| G35-0127    | 12.7                    |                  |               |       |       |       |                     |                       |               | SG350127           |
| G35-1159    | 15.88                   |                  | 4.0mm         |       | 182   |       | 14.5                |                       |               | SG351159           |
| G35-1222    | 22.23                   |                  |               |       |       |       |                     |                       |               | SG351222           |
| G35-2254    | 25.4                    |                  |               |       | 185   |       | 23                  |                       |               | SG352254           |

## Specification sheet of customized products

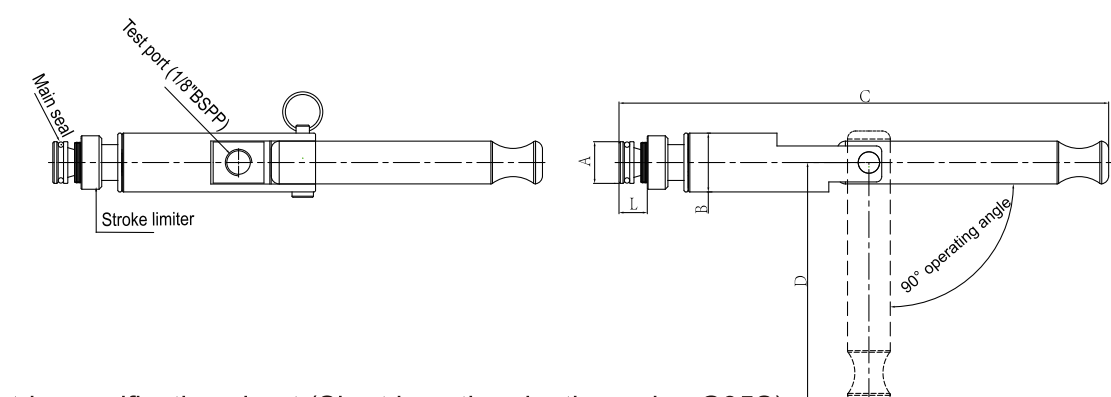
| Part Number | Sealing Range (mm)±0.25 | Maximum pressure | Flow diameter | Dim L | Material of main body | Seals Package | Main Seals Package |
|-------------|-------------------------|------------------|---------------|-------|-----------------------|---------------|--------------------|
| G35-1XXX    | 14-25                   | 70Bar *          | 4mm           | 15    | Aluminum alloy        | Buna-N        | SG351XXX           |
| G35-2XXX    | 25-35                   | 50Bar *          | 4mm           | 25    |                       |               | SG352XXX           |
| G35-3XXX    | 35-60                   | 20Bar *          | 7mm           | 25    |                       |               | SG353XXX           |

Note: \*The maximum pressure is dependent on the material of the tubing, with a maximum pressure up to 70 bar.

# G35S Short internal expansion connectors

One-stop connection solution

High pressure test | O-ring | Collet locking | Full range of models | Quick operation | Diversified seal materials



## Metric specification sheet (Short insertion depth version G35S)

| Part Number | Sealing Range (mm)±0.25 | Maximum pressure | Flow diameter | Dim B | Dim C | Insertion Depth (L) | Material of main body | Seals Package | Main Seals Package |
|-------------|-------------------------|------------------|---------------|-------|-------|---------------------|-----------------------|---------------|--------------------|
| G35S-0100   | 10.00                   | 10Bar            | 2.8mm         |       | 181   | 9                   | Aluminum alloy        | Buna-N        | SG35S0100          |
| G35S-0110   | 11.00                   |                  |               |       |       |                     |                       |               | SG35S0110          |
| G35S-0120   | 12.00                   |                  |               |       |       |                     |                       |               | SG35S0120          |
| G35S-0130   | 13.00                   |                  |               |       |       |                     |                       |               | SG35S0130          |
| G35S-0140   | 14.00                   |                  |               |       |       |                     |                       |               | SG35S0140          |
| G35S-1150   | 15.00                   |                  | 4.3mm         | 22    | 186   | 9                   |                       |               | SG35S1150          |
| G35S-1160   | 16.00                   |                  |               |       |       |                     |                       |               | SG35S1160          |
| G35S-1170   | 17.00                   |                  |               |       |       |                     |                       |               | SG35S1170          |
| G35S-1180   | 18.00                   |                  |               |       |       |                     |                       |               | SG35S1180          |
| G35S-1190   | 19.00                   |                  |               |       |       |                     |                       |               | SG35S1190          |
| G35S-1200   | 20.00                   |                  |               |       |       |                     |                       |               | SG35S1200          |
| G35S-1210   | 21.00                   |                  |               |       |       |                     |                       |               | SG35S1210          |
| G35S-1220   | 22.00                   |                  |               |       |       |                     |                       |               | SG35S1220          |
| G35S-1230   | 23.00                   |                  |               |       |       |                     |                       |               | SG35S1230          |
| G35S-1240   | 24.00                   |                  |               |       |       |                     |                       |               | SG35S1240          |
| G35S-1250   | 25.00                   |                  |               |       |       |                     |                       |               | SG35S1250          |

All GripSeal connectors have incorporated safety design into their design. However, the connector users have the responsibility to design their own safety measures to avoid property damage caused by improper size or other reasons. For example, safety chains, protective nets, protective cages, or specialized fixtures are all excellent protective measures. GripSeal can also provide or assist clients in identifying potential security threats.

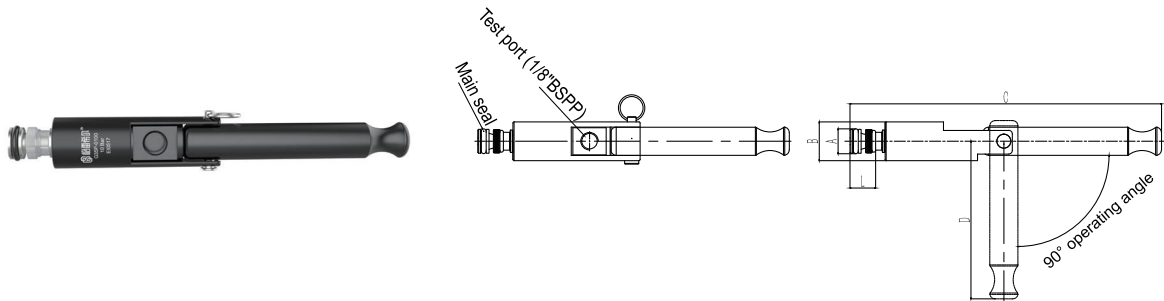


# G35P

## Low pressure internal expansion non-destructive connectors

One-stop connection solution

Testing within 10 bar | O-ring | Engineering plastic locking | Full range of models | Quick operation | Diversified seal materials



### Metric size Application

| Part Number | Sealing Range (mm)±0.25 | Maximum pressure | Flow diameter | Dim B | Dim C | Dim D | Insertion Depth (L) | Material of main body | Seals Package | Main Seals Package |
|-------------|-------------------------|------------------|---------------|-------|-------|-------|---------------------|-----------------------|---------------|--------------------|
| G35P-0100   | 10.00                   | 7Bar             | 2.8mm         |       | 177   |       | 12                  | Aluminum alloy        | Buna-N        | SG35P0100          |
| G35P-0110   | 11.00                   |                  |               |       |       |       |                     |                       |               | SG35P0110          |
| G35P-0120   | 12.00                   |                  |               |       |       |       |                     |                       |               | SG35P0120          |
| G35P-0130   | 13.00                   |                  |               |       |       |       |                     |                       |               | SG35P0130          |
| G35P-0140   | 14.00                   |                  | 4.0mm         |       |       |       | SG35P0140           |                       |               |                    |
| G35P-1150   | 15.00                   |                  |               |       |       |       | SG35P1150           |                       |               |                    |
| G35P-1160   | 16.00                   |                  |               |       |       |       | SG35P1160           |                       |               |                    |
| G35P-1170   | 17.00                   |                  |               |       |       |       | SG35P1170           |                       |               |                    |
| G35P-1180   | 18.00                   |                  |               |       |       |       | SG35P1180           |                       |               |                    |
| G35P-1190   | 19.00                   |                  |               |       |       |       | SG35P1190           |                       |               |                    |
| G35P-1200   | 20.00                   |                  |               |       |       |       | SG35P1200           |                       |               |                    |
| G35P-1210   | 21.00                   |                  |               |       |       |       | SG35P1210           |                       |               |                    |
| G35P-1220   | 22.00                   |                  |               |       |       |       | SG35P1220           |                       |               |                    |
| G35P-1230   | 23.00                   |                  |               |       |       |       | SG35P1230           |                       |               |                    |

### Inch size Application

| Part Number | Sealing Range (mm)±0.25 | Maximum pressure | Flow diameter | Dim B | Dim C | Dim D | Insertion Depth (L) | Material of main body | Seals Package | Main Seals Package |
|-------------|-------------------------|------------------|---------------|-------|-------|-------|---------------------|-----------------------|---------------|--------------------|
| G35P-0095   | 9.52                    | 7Bar             | 2.8mm         | 22    | 177   | 90    | 12                  | Aluminum alloy        | Buna-N        | SG35P0095          |
| G35P-0127   | 12.7                    |                  |               |       |       |       |                     |                       |               | SG35P0127          |
| G35P-1159   | 15.88                   |                  | 4.0mm         |       | 182   |       | 14.5                |                       |               | SG35P1159          |
| G35P-1222   | 22.23                   |                  |               |       |       |       |                     |                       |               | SG35P1222          |
| G35P-2254   | 25.4                    |                  |               |       |       |       |                     |                       |               | SG35P2254          |

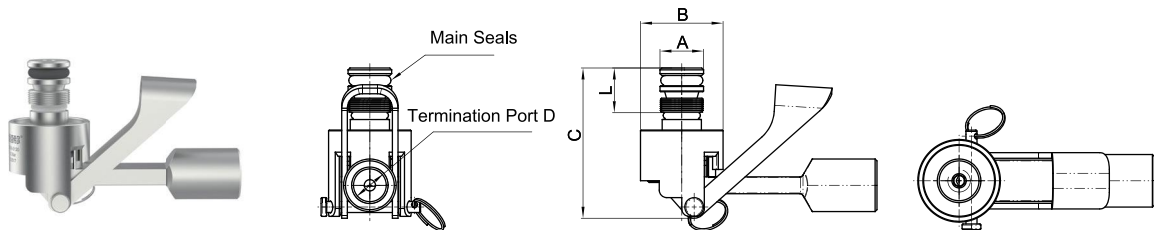
GripSeal provides more non-standard size sealing solutions. Please contact us for more information. Main Seals Package

# G35N

## Miniature internal expansion connectors

One-stop connection solution

Testing within 10 bar | O-ring | Engineering plastic locking | Full range of models | Quick operation | Diversified seal materials



### Metric specification sheet (Short insertion depth version G35N)

| Part Number | Sealing Range | Maximum pressure | Flow diameter | Dim B | Dim C | Termination Port D | Insertion Depth (L) | Material of main body | Seals Material | Main Seals Package |
|-------------|---------------|------------------|---------------|-------|-------|--------------------|---------------------|-----------------------|----------------|--------------------|
| G35N-0100   | 10.0          | 20Bar            | 3mm           | 22    | 4     | 1/8"BSPP           | 12                  | Stainless steel       | Buna-N         | SG350100           |
| G35N-0110   | 11.0          |                  |               |       |       |                    |                     |                       |                | SG350110           |
| G35N-0120   | 12.0          |                  |               |       |       |                    |                     |                       |                | SG350120           |
| G35N-0130   | 13.0          |                  |               |       |       |                    |                     |                       |                | SG350130           |
| G35N-0140   | 14.0          |                  |               |       |       |                    |                     |                       |                | SG350140           |
| G35N-1150   | 15.0          |                  |               |       |       |                    | 14.5                |                       |                | SG351150           |
| G35N-1160   | 16.0          |                  |               |       |       |                    |                     |                       |                | SG351160           |
| G35N-1170   | 17.0          |                  |               |       |       |                    |                     |                       |                | SG351170           |
| G35N-1180   | 18.0          |                  |               |       |       |                    |                     |                       |                | SG351180           |
| G35N-1190   | 19.0          |                  |               |       |       |                    |                     |                       |                | SG351190           |

### G35N body sizes



BS0

BS1

# G35C

Low pressure internal expansion connectors

One-stop connection solution

Fast replacement | Wide range | Internal expansion | Compact size | Diversified seal materials

The G35C series combines the characteristics of G25A wide range sealing and G35 high-pressure collet. This series of connectors features a compact size and a wide sealing range. They are applicable to scenarios with large inner diameter tolerances, such as heat exchangers, injection molded pipe fittings, etc.



### Wide-range low-pressure connectors

- \* Wide sealing range. One product can be used for multiple sizes.
- \* Reliable sealing and long service life
- \* Compact size and light weight, reducing the work intensity of operators
- \* Equipped with the locking structure, improving safety during testing

Features of G35C series quick connectors

1. Cylinder seal
- The cylinder seal is customized and has a large sealing area and a high tolerance.
2. Aluminum alloy body
- The connector is made of aluminum alloy material, which ensures lightweight and sturdy durability.
3. Locking structure
- Collets are available at the front of the connector and can firmly grip the inner wall of the product, greatly improving safety during testing.
4. Termination port
- The connector comes with a G1/8 ventilation port, and different plugs can be selected according to customer needs to switch between the ventilation and occlusion functions.

Dozens of standard models are available to accommodate pipe diameters from 9.52mm to 32mm, with other dimensions customizable up to 35mm.

Body sizes



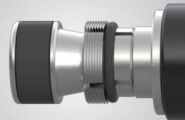
# G35C

Low pressure internal expansion connectors

One-stop connection solution

Fast replacement | Wide range | Internal expansion | Compact size | Diversified seal materials

Advantages of G35C quick connectors



Sealing through internal expansion: Customized cylinder seal with a sealing range of 1mm



Collets: Enduring higher testing pressure to improve safety during testing



Multi-point sealing: Special jaw shape, multi-point contact provides more clamping force while reducing inner wall scratching



Aircraft-grade aluminum & Nylon lever: Light weight, reducing the work intensity of operators



BSPP termination port: Complying with international standards, which make it easy to obtain related accessories and easy to seal

Specifications of G35C quick connectors



|                        |                                         |
|------------------------|-----------------------------------------|
| Max operation pressure | From Vacuum to 10 Bar                   |
| Sealing range          | 10mm - 25mm                             |
| Minimize insert depth  | BS0: 15mm<br>BS1: 18mm                  |
| Termination port       | 1/8"BSPP thread hole                    |
| Material of main body  | Aluminium oxide, stainless steel, nylon |
| Main seal              | Neoprene                                |
| Internal seal          | Buna-N                                  |
| Operation temperature  | -20°C - 120°C                           |

The G35C series connectors are widely used in fields such as new energy airtightness testing and engine leakage testing due to their leak free, wide range, and high pressure resistance characteristics.

How to use G35C



1. Align the connector with the interior of the tubing.



2. Insert the connector into the tubing.



3. Turn the lever to lock the test piece for sealing.

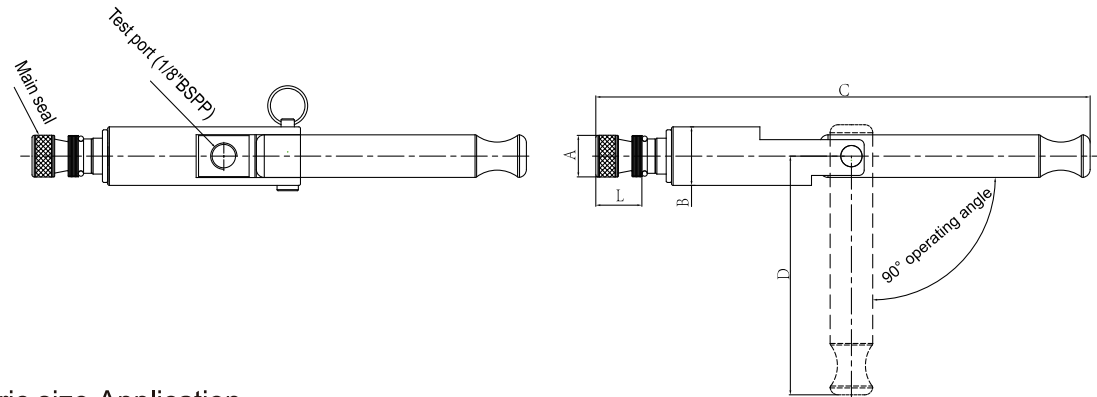


# G35C

Low pressure internal expansion connectors

Fast replacement | Wide range | Internal-expansion | Compact size | Diversified seal materials

One-stop connection solution



Metric size Application

| Part Number | Sealing Range | Maximum pressure | Flow diameter | Dim B | Dim C | Insertion Depth (L) | Material of main body | Seals Material | Main Seals Package |
|-------------|---------------|------------------|---------------|-------|-------|---------------------|-----------------------|----------------|--------------------|
| G35C-0100   | 9.8 - 11.0    | 10Bar            | 2.8mm         |       | 181   | 16                  | Aluminum alloy        | Buna-N         | SG35C0100          |
| G35C-0110   | 10.8 - 12.0   |                  |               |       |       |                     |                       |                | SG35C0110          |
| G35C-0120   | 11.8 - 13.0   |                  |               |       |       |                     |                       |                | SG35C0120          |
| G35C-0130   | 12.8 - 14.0   |                  |               |       |       |                     |                       |                | SG35C0130          |
| G35C-0140   | 13.8 - 15.0   |                  |               |       |       |                     |                       |                | SG35C0140          |
| G35C-1150   | 14.8 - 16.0   |                  | 4.3mm         |       | 196   | 19                  |                       |                | SG35C1150          |
| G35C-1160   | 15.8 - 17.0   |                  |               |       |       |                     |                       |                | SG35C1160          |
| G35C-1170   | 16.8 - 18.0   |                  |               |       |       |                     |                       |                | SG35C1170          |
| G35C-1180   | 17.8 - 19.0   |                  |               |       |       |                     |                       |                | SG35C1180          |
| G35C-1190   | 18.8 - 20.0   |                  |               |       |       |                     |                       |                | SG35C1190          |
| G35C-1200   | 19.8 - 21.0   |                  |               |       |       |                     |                       |                | SG35C1200          |
| G35C-1210   | 20.8 - 22.0   |                  |               |       |       |                     |                       |                | SG35C1210          |
| G35C-1220   | 21.8 - 23.0   |                  |               |       |       |                     |                       |                | SG35C1220          |
| G35C-1230   | 22.8 - 24.0   |                  |               |       |       |                     |                       |                | SG35C1230          |
| G35C-1240   | 23.8 - 25.0   |                  |               |       |       |                     |                       |                | SG35C1240          |
| G35C-1250   | 24.8 - 26.0   |                  |               |       |       |                     |                       |                | SG35C1250          |

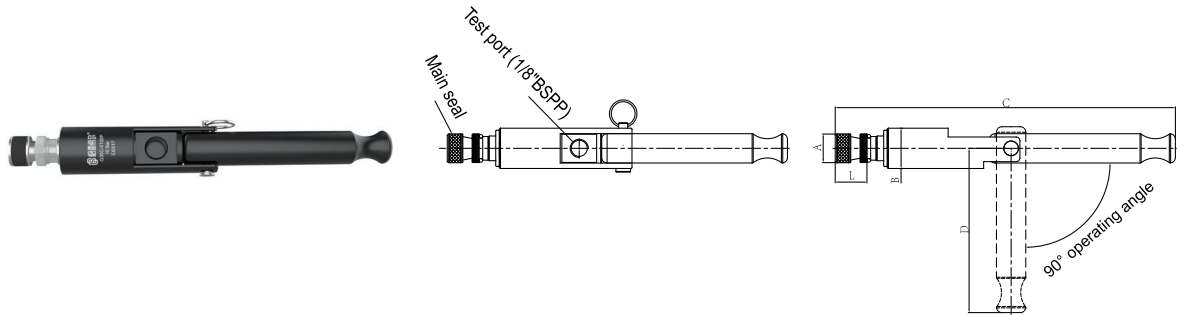
All GripSeal connectors have incorporated safety design into their design. However, the connector users have the responsibility to design their own safety measures to avoid property damage caused by improper size or other reasons. For example, safety chains, protective nets, protective cages, or specialized fixtures are all excellent protective measures. GripSeal can also provide or assist clients in identifying potential security threats.

# G35C-P

Low pressure internal expansion non-destructive connectors

Fast replacement | Wide range | Engineering plastic locking | Compact size | Diversified seal materials

One-stop connection solution



Metric size Application

| Part Number | Sealing Range | Maximum pressure | Flow diameter | Dim B | Dim C | Insertion Depth (L) | Material of main body | Seals Material | Main Seals Package |
|-------------|---------------|------------------|---------------|-------|-------|---------------------|-----------------------|----------------|--------------------|
| G35C-0100P  | 9.8 - 10.5    | 7Bar             | 2.8mm         |       | 181   | 16                  | Aluminum alloy        | Buna-N         | SG35C0100P         |
| G35C-0110P  | 10.8 - 11.5   |                  |               |       |       |                     |                       |                | SG35C0110P         |
| G35C-0120P  | 11.8 - 12.5   |                  |               |       |       |                     |                       |                | SG35C0120P         |
| G35C-0130P  | 12.8 - 13.5   |                  |               |       |       |                     |                       |                | SG35C0130P         |
| G35C-0140P  | 13.8 - 14.5   |                  |               |       |       |                     |                       |                | SG35C0140P         |
| G35C-1150P  | 14.8 - 15.5   |                  | 4.3mm         |       | 196   | 19                  |                       |                | SG35C1150P         |
| G35C-1160P  | 15.8 - 16.0   |                  |               |       |       |                     |                       |                | SG35C1160P         |
| G35C-1170P  | 16.8 - 17.5   |                  |               |       |       |                     |                       |                | SG35C1170P         |
| G35C-1180P  | 17.8 - 18.5   |                  |               |       |       |                     |                       |                | SG35C1180P         |
| G35C-1190P  | 18.8 - 19.5   |                  |               |       |       |                     |                       |                | SG35C1190P         |
| G35C-1200P  | 19.8 - 20.5   |                  |               |       |       |                     |                       |                | SG35C1200P         |
| G35C-1210P  | 20.8 - 21.5   |                  |               |       |       |                     |                       |                | SG35C1210P         |
| G35C-1220P  | 21.8 - 22.5   |                  |               |       |       |                     |                       |                | SG35C1220P         |
| G35C-1230P  | 22.8 - 23.5   |                  |               |       |       |                     |                       |                | SG35C1230P         |
| G35C-1240P  | 23.8 - 24.5   |                  |               |       |       |                     |                       |                | SG35C1240P         |
| G35C-1250P  | 24.8 - 25.5   |                  |               |       |       |                     |                       |                | SG35C1250P         |

GripSeal provides more non-standard size sealing solutions. Please contact us for more information.

# G60 External thread connectors

One-stop connection solution

Instant | Convenient | Standard | High quality

G60 series are a special connector for male threads, which are widely used in various instruments/meters, home appliances and air conditioning industries for running testing, such as ignition testing of water heaters, pressure testing of instruments, refrigerant charging during the assembly of external air conditioning devices, etc. Simple operation method, handheld and lightly pushed to complete the connection, make this series the perfect choice for male thread connection/testing solutions.

## External thread connectors



- \* Easy-to-replace surface seals
- \* Push-pull operation, which is convenient and reliable
- \* Airtight connection to ensure efficient testing
- \* Safety blue ring to ensure the production

## Features of G60 series quick connectors

1. Sliding sleeve actuated operation  
Only a gentle push is need to complete the threaded connection. The outer shell has knurling to increase handheld friction for easy operation.
2. Surface sealing  
The sealing is reliable, the pressure limit is high, and it is easy to replace the seal and convenient to maintain.
3. SUS316 body  
SUS316 has excellent mechanical properties. It is durable and wear-resistant, and can significantly extend the service life of the connector.
4. Straight-through design  
The design maximizes the flow and reduces the impact on the running test.
5. Safety ring  
The in-place confirmation ring ensures the normal operation of the connector.

G60 external thread quick connectors are available for all sizes of British threads, metric threads, and SAE threads, and for pressures from 20, 50, 100, to 2500 bar (UHP version).

### Body sizes



# G60 External thread connectors

One-stop connection solution

Instant | Convenient | Standard | High quality

## Characteristics of G60 quick connectors

|                                                                              |                                                    |                                                                               |                                                                                                                                                                        |                                                               |
|------------------------------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
|                                                                              |                                                    |                                                                               |                                                                                                                                                                        |                                                               |
| External thread locking: No rotation required and no-harm to product threads | Knurling: Increasing friction, and easy to operate | Sliding sleeve structure: A gentle push to complete locking and disconnecting | Straight-through design: Reducing loss to flow and ensuring accurate test results<br>Straight-through design: Reducing loss to flow and ensuring accurate test results | Easy-to-replace surface seals: Simple to replace and maintain |

## Specifications of G60 quick connectors

|                        |                                               |
|------------------------|-----------------------------------------------|
| Max operation pressure | From vacuum to 50 bar (UHP version: 2500 bar) |
| Sealing range          | 1/8"-2"                                       |
| Minimize insert depth  | 25mm                                          |
| Termination port       | See the specification sheet.                  |
| Material of main body  | Aluminum alloy, stainless steel, nylon        |
| Main seal              | Neoprene, Buna-N                              |
| Internal seal          | Buna-N                                        |
| Operation temperature  | -20°C - 120°C                                 |

### How to use G60

1. Align the connector with the pipe fitting that needs to be sealed.
2. Push the connector into the pipe fitting.



Applications



Water heater



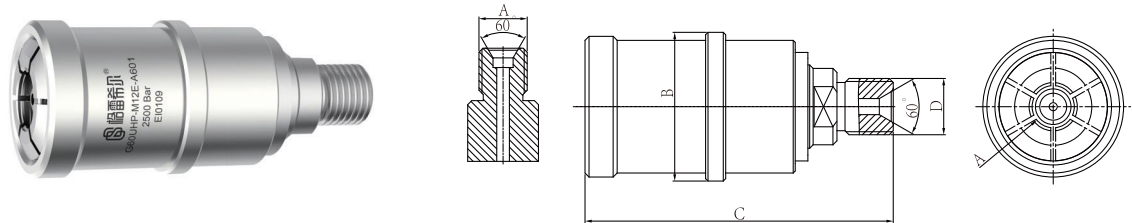
Outdoor unit of the air conditioner



Water mixing valve of the washing machine

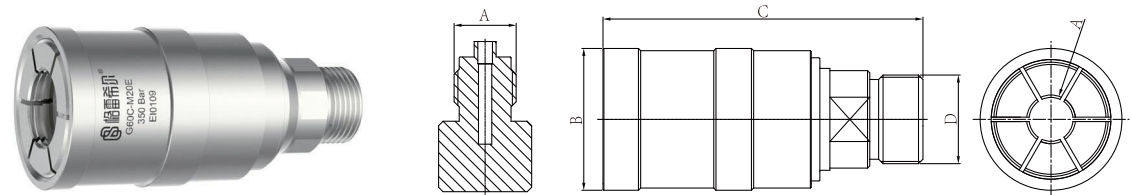


Fuel nozzle and fuel rail



G60UHP ultimate high pressure connector tailored for the fuel system

| Part Number      | Dim A   | Body Size | Dim B | Dim C | External Thread (D) | Maximum Pressure* | Material of main body   | Seal Material       | Main Seals Package |
|------------------|---------|-----------|-------|-------|---------------------|-------------------|-------------------------|---------------------|--------------------|
| G60UHP-M12E-A601 | M12X1.5 | 1U        | 34    | 80    | M14X1.5             | 2500Bar           | Special stainless steel | Polyurethane rubber | SG60UHPM12E        |
| G60UHP-M14E-A601 | M14X1.5 | 1U        | 34    | 80    |                     |                   |                         |                     | SG60UHPM14E        |
| G60UHP-M16E-A601 | M16X1.5 | 1U        | 34    | 80    |                     |                   |                         |                     | SG60UHPM16E        |
| G60UHP-M18E-A601 | M18X1.5 | 2U        | 38    | 80    |                     |                   |                         |                     | SG60UHPM18E        |



G60C quick connectors for instrument calibration

| Part Number | Dim A    | Body Size | Dim B | Dim C | External Thread (D) | Maximum Pressure* | Material of main body | Seal Material | Main Seals Package |
|-------------|----------|-----------|-------|-------|---------------------|-------------------|-----------------------|---------------|--------------------|
| G60C-M10C   | M10*1.0  | 1C        | 25    | 72    | M14*1.5             | 350 Bar           | 316 Stainless Steel   | Buna-N        | SG60C-M10C         |
| G60C-M10E   | M10*1.5  | 1C        | 25    | 72    |                     |                   |                       |               | SG60C-M10E         |
| G60C-G01    | 1/8"BSPP | 1C        | 25    | 72    |                     |                   |                       |               | SG60C-G01          |
| G60C-R01    | 1/8"BSPT | 1C        | 25    | 72    |                     |                   |                       |               | SG60C-R01          |
| G60C-N01    | 1/8"NPT  | 1C        | 25    | 72    |                     |                   |                       |               | SG60C-N01          |
| G60C-M12C   | M12*1.0  | 2C        | 32    | 72    | M20*1.5             |                   |                       |               | SG60C-M12C         |
| G60C-M12E   | M12*1.5  | 2C        | 32    | 72    |                     |                   |                       |               | SG60C-M12E         |
| G60C-M14E   | M14*1.5  | 2C        | 32    | 75    | M20*1.5             |                   |                       |               | SG60C-M14E         |
| G60C-G02    | 1/4"BSPP | 2C        | 32    | 75    |                     |                   |                       |               | SG60C-G02          |
| G60C-R02    | 1/4"BSPT | 2C        | 32    | 75    |                     |                   |                       |               | SG60C-R02          |
| G60C-N02    | 1/4"NPT  | 2C        | 32    | 75    |                     |                   |                       |               | SG60C-N02          |
| G60C-M20E   | M20*1.5  | 3C        | 40    | 85    | M20*1.5             | SG60C-M20E        |                       |               |                    |
| G60C-G04    | 1/2"BSPP | 3C        | 40    | 85    |                     | SG60C-G04         |                       |               |                    |
| G60C-R04    | 1/2"BSPT | 3C        | 40    | 85    |                     | SG60C-R04         |                       |               |                    |
| G60C-N04    | 1/2"NPT  | 3C        | 40    | 85    |                     | SG60C-N04         |                       |               |                    |
| G60HP-M14E  | M14*1.5  | 2HP       | 36    | 85    | M14*1.5             | 700 Bar           | 316 Stainless Steel   | Buna-N        | SG60HP-M14E        |
| G60HP-M20E  | M20*1.5  | 3HP       | 43    | 95    | M20*1.5             |                   |                       |               | SG60HP-M20E        |

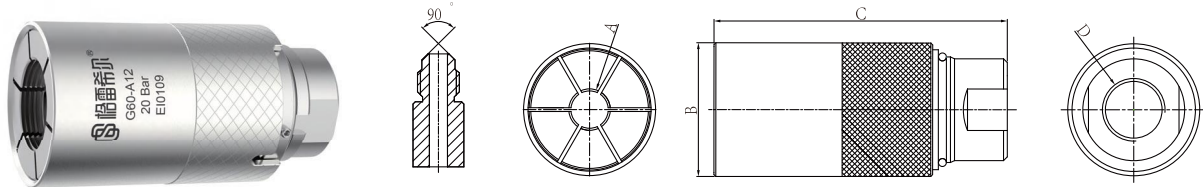


# G60

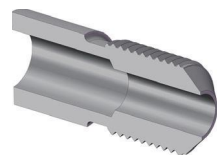
## External thread connectors

Instant | Convenient | Standard | High quality

One-stop connection solution



Specification sheet for SAE45° threads (with the safety lock)



| Part Number | Dim A          | Body Size | Dim B | Dim C | Termination Port D | Maximum Pressure | Material of main body | Seal Material | Main Seals Package |
|-------------|----------------|-----------|-------|-------|--------------------|------------------|-----------------------|---------------|--------------------|
| G60-A04     | -4(7/16-20)    | 2         | 25    | 75    | 1/8"BSPP           | 50 Bar           | 316 SS                | Buna-N        | SG60A04            |
| G60-A06     | -6(9/16-18)    | 4         | 35    | 80    | 3/8"BSPP           | 50 Bar           | 316 SS                | Buna-N        | SG60A06            |
| G60-A08     | -8(3/4-16)     | 4         | 35    | 80    | 3/8"BSPP           | 50 Bar           | 316 SS                | Buna-N        | SG60A08.           |
| G60-A10     | -10(7/8-14)    | 6         | 46    | 90    | 3/4"BSPP           | 50 Bar           | 316 SS                | Buna-N        | SG60A10.           |
| G60-A12     | -12(1-1/16-12) | 6         | 46    | 90    | 3/4"BSPP           | 50 Bar           | 316 SS                | Buna-N        | SG60A12            |
| G60-A14     | -14(1-1/4-12)  | 7         | 50    | 90    | 3/4"BSPP           | 50 Bar           | 316 SS                | Buna-N        | SG60A10            |
| G60-A16     | -16(1-3/8-12)  | 7         | 50    | 90    | 3/4"BSPP           | 50 Bar           | 316 SS                | Buna-N        | SG60A16            |

\* Other thread specifications can be customized, and the max size is 2 inches.

Specification sheet for metric threads (M)



| Part Number | Dim A   | Body Size | Dim B | Dim C | Termination Port D | Maximum Pressure | Material of main body | Seal Material | Main Seals Package |
|-------------|---------|-----------|-------|-------|--------------------|------------------|-----------------------|---------------|--------------------|
| G60-M10     | M10X1.0 | 2         | 25    | 75    | 1/8"BSPP           | 50 Bar           | 316 SS                | Neoprene      | SG60M10            |
| G60-M12     | M12X1.5 | 3         | 30    | 75    | 1/4"BSPP           | 50 Bar           | 316 SS                | Neoprene      | SG60M12            |
| G60-M14     | M14X1.5 | 4         | 35    | 80    | 3/8"BSPP           | 50 Bar           | 316 SS                | Neoprene      | SG60M14            |
| G60-M16     | M16X1.5 | 4         | 35    | 80    | 3/8"BSPP           | 50 Bar           | 316 SS                | Neoprene      | SG60M16            |
| G60-M18     | M18X1.5 | 5         | 40    | 80    | 1/2"BSPP           | 50 Bar           | 316 SS                | Neoprene      | SG60M18            |
| G60-M20     | M20X1.5 | 5         | 40    | 80    | 1/2"BSPP           | 50 Bar           | 316 SS                | Neoprene      | SG60M20            |
| G60-M22     | M22X1.5 | 6         | 46    | 90    | 3/4"BSPP           | 50 Bar           | 316 SS                | Neoprene      | SG60M22            |
| G60-M24     | M24X1.5 | 6         | 46    | 90    | 3/4"BSPP           | 50 Bar           | 316 SS                | Neoprene      | SG60M24            |

Specification sheet for G/R threads (For water heaters only)



| Part Number | Dim A    | Body Size | Dim B | Dim C | Termination Port D       | Maximum Pressure | Material of main body | Seal Material | Main Seals Package |
|-------------|----------|-----------|-------|-------|--------------------------|------------------|-----------------------|---------------|--------------------|
| G60-085     | 1/2"BSPP | 5         | 40    | 80    | 1/2"BSPP                 | 20 Bar           | 316 SS                | Neoprene      | SG60085            |
| .G60-085T   | 1/2"BSPT | 5         | 40    | 80    | 1/2"BSPP                 | 20 Bar           | 316 SS                | Neoprene      | SG60085T-          |
| G60-125     | 3/4"BSPP | 6         | 46    | 90    | 3/4"BSPP                 | 20 Bar           | 316 SS                | Neoprene      | SG60125            |
| G60-125T    | 3/4"BSPT | 6         | 46    | 90    | 3/4"BSPP                 | 20 Bar           | 316 SS                | Neoprene      | SG60125T           |
| G60A-085    | 1/2"BSPP | 4         | 40    | 80    | 1/2"BSPT External Thread | 20 Bar           | 316 SS                | Neoprene      | SG60A085           |
| G60A-125    | 3/4"BSPP | 5         | 46    | 90    | 3/4"BSPT External Thread | 20 Bar           | 316 SS                | Neoprene      | SG60A125           |

Note:  
For all external threaded connections, customers are required to provide relevant drawings and samples for final confirmation. For larger dimensions other than those displayed in the table, please contact us for details.  
G60 connectors for other types (NPT) of threads as well as larger size threads can be customized.

# G65

## Straight-through internal thread connectors

Straight-through | Sleeve | Internal thread | Built-in valve | High flow | Locking

One-stop connection solution

The G65 series connectors are designed for internal threaded hole connections. G65 has a large internal diameter, high flow, and a maximum pressure capacity of 400 kg. Its built-in shut-off valve can prevent the outflow of medium in the test tube. G65 is widely used in various gas and liquid medium filling scenarios.



### Straight-through internal thread c onnectors

- \* Anti-loosening design, ensuring a stable connection
- \* Large flow aperture, preventing the connector from affecting the tests
- \* High pressure limit, allowing testing up to 400 kg
- \* Self-sealing feature, preventing overflow of testing medium

Features of G65 series quick connectors

- 1. Anti-loosening buckle**

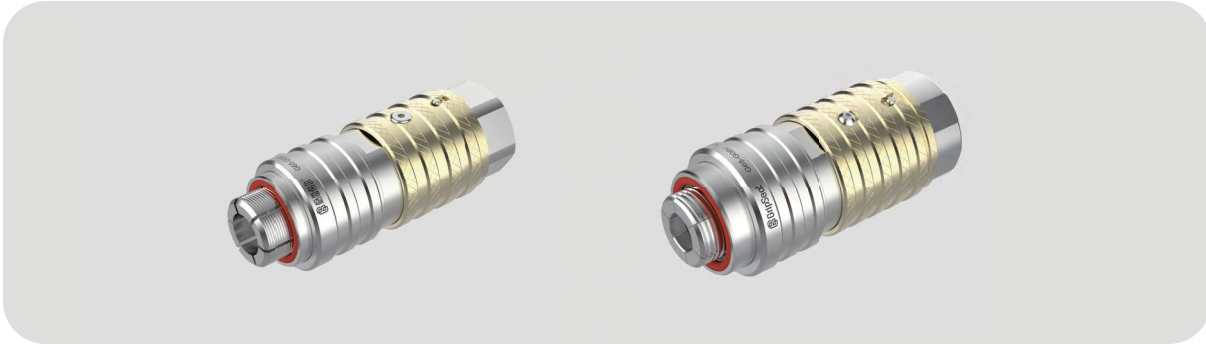
After locking the connector, twist the connector shell to lock the connector and prevent it from loosening.
- 2. Built in shut-off valve**

The connector is equipped with an overflow shut-off valve inside. When the connector is not connected to the threaded hole, the valve is in a closed state to prevent the overflow of the test medium.
- 3. High pressure limit up to 400 kg**

The connector is made of high-performance stainless steel, which not only resists high pressure, but also has the anti-rust and anti-corrosion characteristics.
- 4. Straight-through design**

The straight-through channel design greatly reduces the loss of testing pressure and flow. (This feature is available only in the versions without shut-off valves.)

Body sizes





# G65 Straight-through internal thread connectors

One-stop connection solution

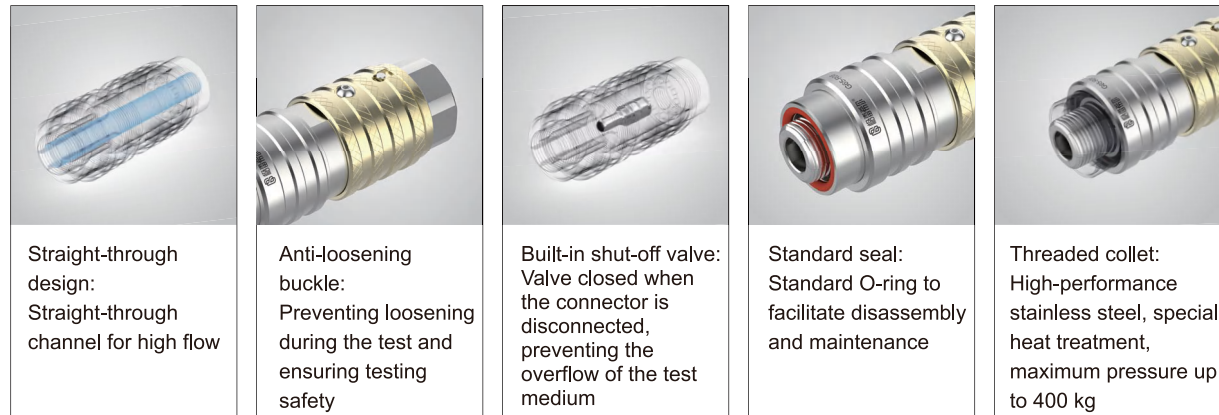
Straight-through | Sleeve | Internal thread | Built-in valve | High flow | Locking

# G65 Straight-through internal thread connectors

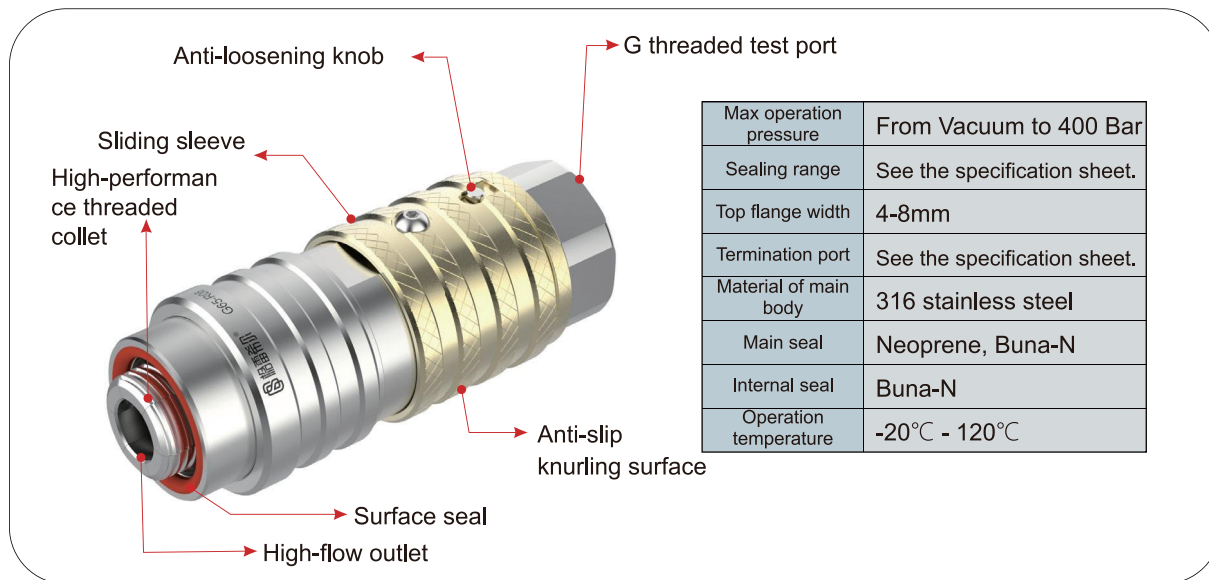
One-stop connection solution

Straight-through | Sleeve | Internal thread | Built-in valve | High flow | Locking

## Advantages of G65 quick connectors



## Specifications of G65 quick connectors



The high flow, high pressure, and anti-overflow characteristics of G65 make it the best connection solution for the liquid pressure test, running test, flow test, etc.

### How to use G65



1. Align the front threaded collets of the connector with the threaded hole that needs to be connected.



2. Push the tail of the connector to achieve sealing.

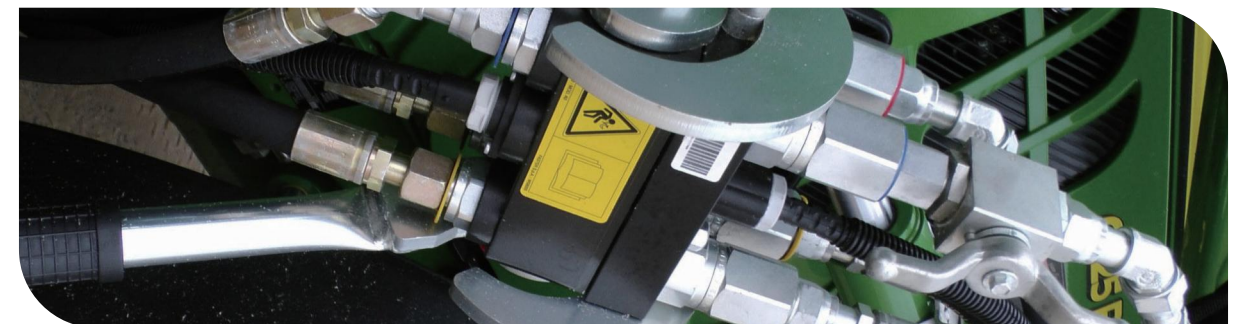
## Applications



Transmitter



High pressure test



Hydraulic connection

# G65

## Straight-through internal thread connectors

One-stop connection solution

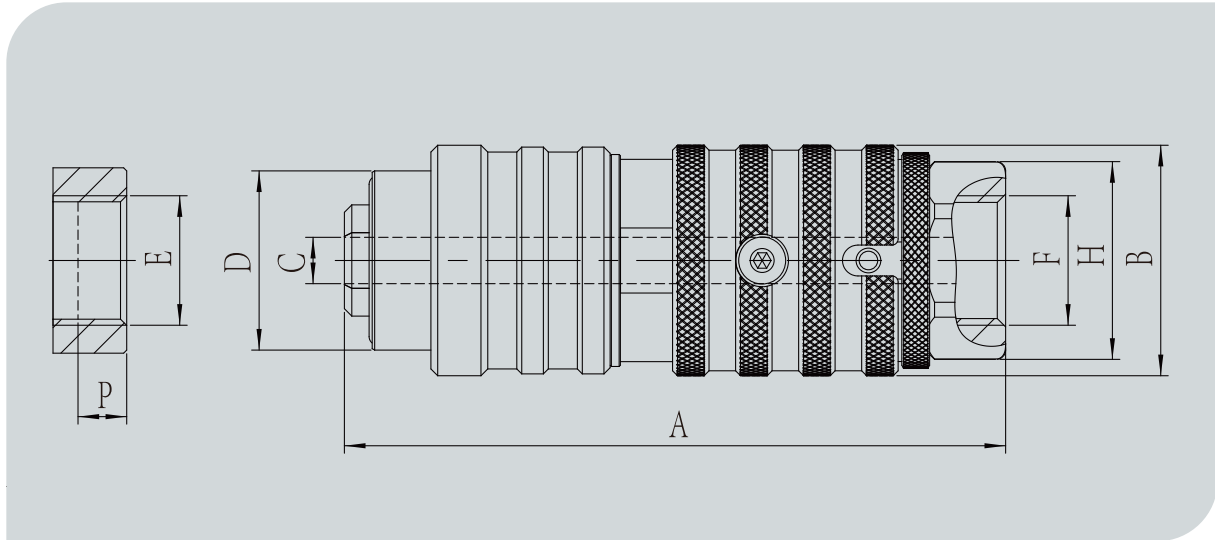
Straight-through | Sleeve | Internal thread | Built-in valve | High flow | Locking

# G65

## Straight-through internal thread connectors

One-stop connection solution

Straight-through | Sleeve | Internal thread | Built-in valve | High flow | Locking



| Part Number | A(mm) | B(mm) | C(mm) | D(mm) | F(mm)    | P(mm) | SH(mm) |
|-------------|-------|-------|-------|-------|----------|-------|--------|
| 2           | 71    | 25    | 5     | 20    | 1/4"BSPP | 6.5   | 20     |
| 3           | 85    | 32    | 6     | 25    | 3/8"BSPP | 6.5   | 21     |
| 4           | 107   | 37    | 7.5   | 29    | 1/2"BSPP | 10    | 29     |
| 6           | 113   | 43    | 12    | 36    | 3/4"BSPP | 12    | 35     |
| 8           | 126   | 54    | 15    | 44    | 1"BSPP   | 15    | 45     |

G65 thread specification sheet

| Part Number                      | Internal Thread Diameter E | Body Size | Insertion Depth (mm) | Tail Threaded Hole | Flow Diameter (mm) | Maximum Pressure | Material of main body | Seal Material | Main Seals Package |
|----------------------------------|----------------------------|-----------|----------------------|--------------------|--------------------|------------------|-----------------------|---------------|--------------------|
| G65V-G02 (with valve)<br>G65-G02 | 1/4"BSPP                   | 2         | 6.5                  | 1/4"BSPP           | 5                  | 400Bar           | 316 Stainless Steel   | Buna-N        | SG6502             |
| G65V-G03 (with valve)<br>G65-G03 | 3/8"BSPP                   | 3         | 6.5                  | 3/8"BSPP           | 6                  |                  |                       |               | SG6503             |
| G65V-G04 (with valve)<br>G65-G04 | 1/2"BSPP                   | 4         | 10                   | 1/2"BSPP           | 7.5                |                  |                       |               | SG6504             |
| G65V-G06 (with valve)<br>G65-G06 | 3/4"BSPP                   | 6         | 12                   | 3/4"BSPP           | 12                 |                  |                       |               | SG6506             |
| G65V-G08 (with valve)<br>G65-G08 | 1"BSPP                     | 8         | 15                   | 1"BSPP             | 15                 |                  |                       |               | SG6508             |

G65 specification sheet for BSPT threads

| Part Number                      | Internal Thread Diameter E | Body Size | Insertion Depth (mm) | Tail Threaded Hole | Flow Diameter (mm) | Maximum Pressure | Material of main body | Seal Material | Main Seals Package |
|----------------------------------|----------------------------|-----------|----------------------|--------------------|--------------------|------------------|-----------------------|---------------|--------------------|
| G65V-R02 (with valve)<br>G65-R02 | 1/4"BSPT                   | 2         | 6.5                  | 1/4"BSPP           | 5                  | 400Bar           | 316 Stainless Steel   | Buna-N        | SG6502             |
| G65V-R03 (with valve)<br>G65-R03 | 3/8"BSPT                   | 3         | 6.5                  | 3/8"BSPP           | 6                  |                  |                       |               | SG6503             |
| G65V-R04 (with valve)<br>G65-R04 | 1/2"BSPT                   | 4         | 10                   | 1/2"BSPP           | 7.5                |                  |                       |               | SG6504             |
| G65V-R06 (with valve)<br>G65-R06 | 3/4"BSPT                   | 6         | 12                   | 3/4"BSPP           | 12                 |                  |                       |               | SG6506             |
| G65V-R08 (with valve)<br>G65-R08 | 1"BSPT                     | 8         | 15                   | 1"BSPP             | 15                 |                  |                       |               | SG6508             |

G65 specification sheet for metric threads

| Part Number                        | Internal Thread Diameter E | Body Size | Insertion Depth (mm) | Tail Threaded Hole | Flow Diameter (mm) | Maximum Pressure | Material of main body | Seal Material | Main Seals Package |
|------------------------------------|----------------------------|-----------|----------------------|--------------------|--------------------|------------------|-----------------------|---------------|--------------------|
| G65V-M14E (with valve)<br>G65-M14E | M14x1.5                    | 2         | 6.5                  | 1/4"BSPP           | 5                  | 400Bar           | 316 Stainless Steel   | Buna-N        | SG65M14            |
| G65V-M16E (with valve)<br>G65-M16E | M16x1.5                    | 3         | 6.5                  | 3/8"BSPP           | 6                  |                  |                       |               | SG65M16            |
| G65V-M18E (with valve)<br>G65-M18E | M18x1.5                    | 3         | 6.5                  | 3/8"BSPP           | 6                  |                  |                       |               | SG65M18            |
| G65V-M20E (with valve)<br>G65-M20E | M20x1.5                    | 4         | 10                   | 1/2"BSPP           | 7.5                |                  |                       |               | SG65M20            |
| G65V-M22E (with valve)<br>G65-M22E | M22x1.5                    | 4         | 10                   | 1/2"BSPP           | 7.5                |                  |                       |               | SG65M22            |
| G65V-M24E (with valve)<br>G65-M24E | M24x1.5                    | 6         | 12                   | 3/4"BSPP           | 12                 |                  |                       |               | SG65M24            |
| G65V-M27E (with valve)<br>G65-M27E | M27x1.5                    | 6         | 12                   | 3/4"BSPP           | 12                 |                  |                       |               | SG65M27            |
| G65V-M30E (with valve)<br>G65-M30E | M30x1.5                    | 8         | 15                   | 1"BSPP             | 15                 |                  |                       |               | SG65M30            |
| G65V-M33E (with valve)<br>G65-M33E | M33x1.5                    | 8         | 15                   | 1"BSPP             | 15                 |                  |                       |               | SG65M33            |

All GripSeal connectors have incorporated safety design into their design. However, the connector users have the responsibility to design their own safety measures to avoid property damage caused by improper size or other reasons. For example, safety chains, protective nets, protective cages, or specialized fixtures are all excellent protective measures. GripSeal can also provide or assist clients in identifying potential security threats. GripSeal provides more non-standard size sealing solutions. Please contact us for more information.



G70 is an externally gripping connector that is widely used for the Leak test, running test, aging test, etc. of special-shaped tubes such as the cooling tube and fuel rail. G70 has a compact structure and can be held with one hand. It can be easily connected with a gentle push.



### Special-shaped tube connectors

- \* Easy-to-replace surface seals
- \* Push-pull operation, which is convenient and reliable
- \* Airtight connection to ensure efficient testing
- \* Safety blue ring to ensure the production

Features of G70 series quick connectors

1. Sliding sleeve actuated operation
- Only a gentle push is need to complete the threaded connection. The outer shell has knurling to increase handheld friction for easy operation.
2. Surface sealing
- The sealing is reliable, the pressure limit is high, and it is easy to replace the seal and convenient to maintain.
3. SUS316 body
- SUS316 has excellent mechanical properties. It is durable and wear-resistant, and can significantly extend the service life of the connector.
4. Straight-through design
- The design maximizes the flow and reduces the impact on the running test.
5. Safety ring
- The in-place confirmation ring ensures the normal operation of the connector.

Body sizes



Advantages of G70 quick connectors



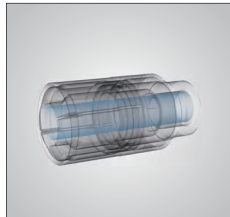
Collets: For directly gripping the flange of the tube



Knurling: Increasing friction, and easy to operate



Sliding sleeve structure: A gentle push to complete locking and disconnecting

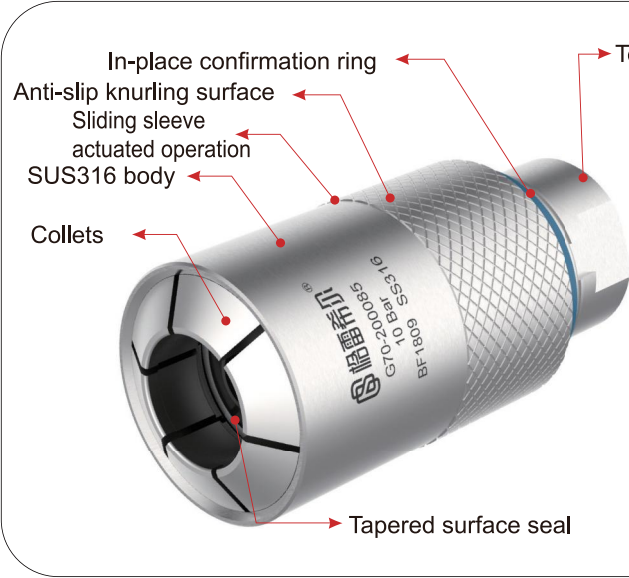


Straight-through design: Reducing loss to flow and ensuring accurate test results



Side water inlet: Side water inlet and shorter connector, suitable for narrow spaces (G70R only)

Specifications of G70 quick connectors



|                        |                              |
|------------------------|------------------------------|
| Max operation pressure | From Vacuum to 70 Bar        |
| Sealing range          | See the specification sheet. |
| Top flange width       | 4-8mm                        |
| Termination port       | See the specification sheet. |
| Material of main body  | 316 stainless steel          |
| Main seal              | Neoprene, Buna-N             |
| Internal seal          | Buna-N                       |
| Operation temperature  | -20℃ - 120℃                  |

### How to use G70



1. Align the connector with the pipe fitting that needs to be sealed.



2. Push the connector into the pipe fitting.

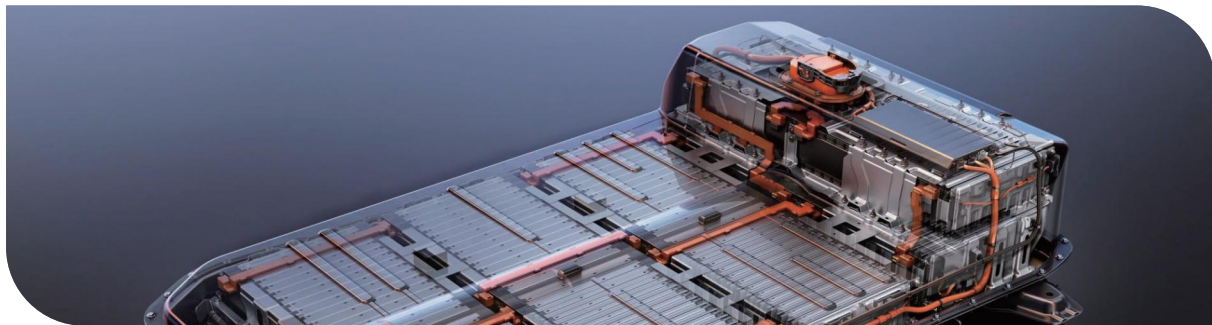


# G70 Special-shaped tube connectors

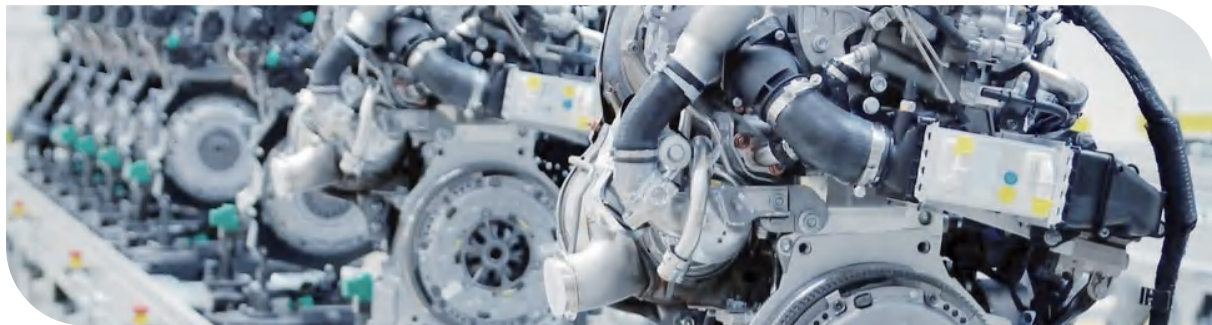
One-stop connection solution

Instant | Convenient | Standard | High quality

## Applications



Battery water-cooling plate test



Engine assembly test

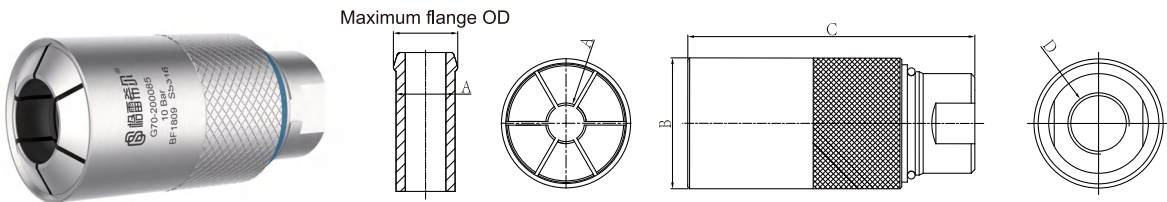


Engine cooling tube test

# G70 Special-shaped tube connectors

One-stop connection solution

Instant | Convenient | Standard | High quality



Special-shaped tube connector specification sheet (BS2 - BS8)

| Part Number | Dim A | Body Size | Dim B | Dim C | Termination Port D | Maximum Pressure* | Material of main body | Seal Material | Main Seals Package |
|-------------|-------|-----------|-------|-------|--------------------|-------------------|-----------------------|---------------|--------------------|
| G70-050025  | 5.0   | 2         | 25    | 75    | 1/4"BSPP           | 10Bar             | 316 Stainless Steel   | Neoprene      | SG70050025         |
| G70-060025  | 6.0   |           |       |       |                    |                   |                       |               | SG70060025         |
| G70-070025  | 7.0   |           |       |       |                    |                   |                       |               | SG70070025         |
| G70-080025  | 8.0   |           |       |       |                    |                   |                       |               | SG70080025         |
| G70-090025  | 9.0   |           |       |       |                    |                   |                       |               | SG70090025         |
| G70-100045  | 10.0  | 3         | 30    | 75    | 1/4"BSPP           | 10Bar             | 316 Stainless Steel   | Neoprene      | SG70100045         |
| G70-110045  | 11.0  |           |       |       |                    |                   |                       |               | SG70110045         |
| G70-120045  | 12.0  |           |       |       |                    |                   |                       |               | SG70120045         |
| G70-130045  | 13.0  |           |       |       |                    |                   |                       |               | SG70130045         |
| G70-140065  | 14.0  |           |       |       |                    |                   |                       |               | SG70140065         |
| G70-150065  | 15.0  | 4         | 35    | 80    | 3/8"BSPP           | 10Bar             | 316 Stainless Steel   | Neoprene      | SG70150065         |
| G70-160065  | 16.0  |           |       |       |                    |                   |                       |               | SG70160065         |
| G70-170065  | 17.0  |           |       |       |                    |                   |                       |               | SG70170065         |
| G70-180085  | 18.0  |           |       |       |                    |                   |                       |               | SG70180085         |
| G70-190085  | 19.0  |           |       |       |                    |                   |                       |               | SG70190085         |
| G70-200085  | 20.0  | 5         | 40    | 80    | 1/2"BSPP           | 10Bar             | 316 Stainless Steel   | Neoprene      | SG70200085         |
| G70-210085  | 21.0  |           |       |       |                    |                   |                       |               | SG70210085         |
| G70-220085  | 22.0  |           |       |       |                    |                   |                       |               | SG70220085         |
| G70-230125  | 23.0  |           |       |       |                    |                   |                       |               | SG70230125         |
| G70-240125  | 24.0  |           |       |       |                    |                   |                       |               | SG70240125         |
| G70-250125  | 25.0  | 6         | 46    | 90    | 3/4"BSPP           | 10Bar             | 316 Stainless Steel   | Neoprene      | SG70250125         |
| G70-260125  | 26.0  |           |       |       |                    |                   |                       |               | SG70260125         |
| G70-270125  | 27.0  |           |       |       |                    |                   |                       |               | SG70270125         |
| G70-280125  | 28.0  |           |       |       |                    |                   |                       |               | SG70280125         |
| G70-290125  | 29.0  |           |       |       |                    |                   |                       |               | SG70290125         |
| G70-300125  | 30.0  | 7         | 50    | 90    | 3/4"BSPP           | 10Bar             | 316 Stainless Steel   | Neoprene      | SG70300125         |
| G70-310125  | 31.0  |           |       |       |                    |                   |                       |               | SG70310125         |
| G70-320125  | 32.0  |           |       |       |                    |                   |                       |               | SG70320125         |
| G70-330125  | 33.0  |           |       |       |                    |                   |                       |               | SG70330125         |
| G70-340125  | 34.0  |           |       |       |                    |                   |                       |               | SG70340125         |
| G70-350125  | 35.0  | 8         | 55    | 90    | 3/4"BSPP           | 10Bar             | 316 Stainless Steel   | Neoprene      | SG70350125         |
| G70-360125  | 36.0  |           |       |       |                    |                   |                       |               | SG70360125         |
| G70-370125  | 37.0  |           |       |       |                    |                   |                       |               | SG70370125         |
| G70-380125  | 38.0  |           |       |       |                    |                   |                       |               | SG70380125         |
| G70-390125  | 39.0  |           |       |       |                    |                   |                       |               | SG70390125         |
| G70-400125  | 40.0  |           |       |       |                    |                   |                       |               | SG70400125         |

Note: For the G70 connectors of body sizes 4 to 8, the flange OD of a sealed pipe is 2mm larger than the OD of a straight pipe. For example, if the sealing diameter (A) of G70-200085 is 20mm, the flange OD is 22mm.

\*The default maximum pressure capacity of a standard product is 10 bar. If you need to perform a high pressure test of 10-50 bar, please contact us.

| Part Number | Dim A | Body Size | Dim B | Dim C | Termination Port D | Maximum Pressure | Material of main body | Seal Material | Main Seals Package |
|-------------|-------|-----------|-------|-------|--------------------|------------------|-----------------------|---------------|--------------------|
| G70-160065A | 16    | 4         | 35    | 80    | 3/8"BSPP           | 10Bar            | 316 Stainless Steel   | Neoprene      | SG70160065         |
| G70-180085A | 18    | 5         | 40    | 80    | 1/2"BSPP           |                  |                       |               | SG70180085         |
| G70-190085A | 19    | 5         | 40    | 80    | 1/2"BSPP           |                  |                       |               | SG70190085         |
| G70-200085A | 20    | 5         | 40    | 80    | 1/2"BSPP           |                  |                       |               | SG70200085         |
| G70-210085A | 21    | 5         | 40    | 80    | 1/2"BSPP           |                  |                       |               | SG70210085         |
| G70-220085A | 22    | 5         | 40    | 80    | 1/2"BSPP           |                  |                       |               | SG70220085         |

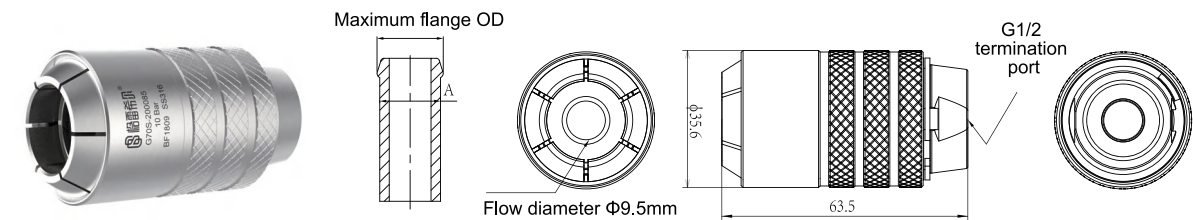
Note: For all connectors with the letter "A" at the end of the part number, a flange height of the connected pipe fitting should be greater than 8mm.



# G70 Special-shaped tube connectors

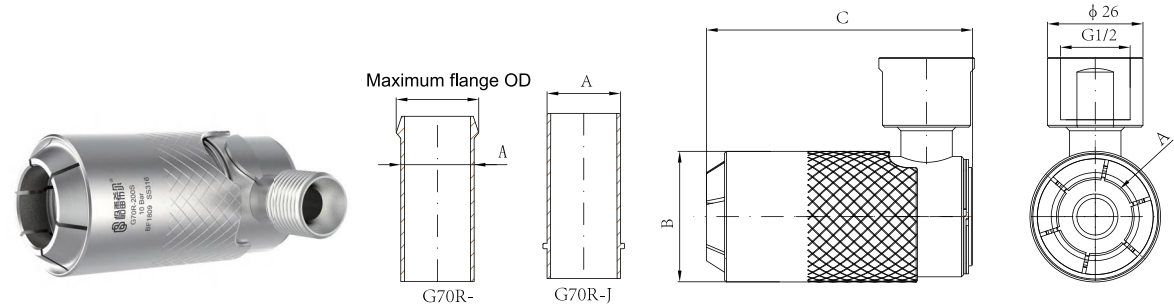
One-stop connection solution

Instant | Convenient | Standard | High quality



G70S small body connector

| Part Number | Dim A | Body Size | Dim B | Dim C | Termination Port D | Maximum Pressure* | Material of main body | Seal Material | Main Seals Package |
|-------------|-------|-----------|-------|-------|--------------------|-------------------|-----------------------|---------------|--------------------|
| G70S-160085 | 16.00 | 4S        | 35.6  | 64    | 1/2"BSPP           | 10Bar             | 316 Stainless Steel   | Neoprene      | SG70S160085        |
| G70S-170085 | 17.00 |           |       |       |                    |                   |                       |               | SG70S170085        |
| G70S-180085 | 18.00 |           |       |       |                    |                   |                       |               | SG70S180085        |
| G70S-190085 | 19.00 |           |       |       |                    |                   |                       |               | SG70S190085        |
| G70S-200085 | 20.00 | 4S        | 35.6  | 65    | 1/2"BSPP           | 20Bar             | 316 Stainless Steel   | Buna-N        | SG70S200085        |
| G70S-J118   | 11.80 |           |       |       |                    |                   |                       |               | SG70SJ118          |
| G70S-J158   | 15.82 |           |       |       |                    |                   |                       |               | SG70SJ158          |



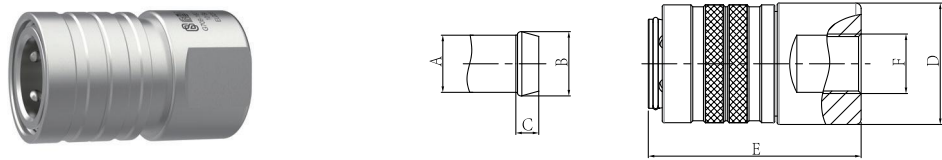
G70R short body connector (L-type swivel)

| Part Number   | Dim A | Body Size | Dim B | Dim C | Termination Port D       | Maximum Pressure* | Material of main body | Seal Material | Main Seals Package |
|---------------|-------|-----------|-------|-------|--------------------------|-------------------|-----------------------|---------------|--------------------|
| G70R-J118S    | 11.80 | 4R        | 35.6  | 73    | 3/8"BSPP External Thread | 20Bar             | 316 Stainless Steel   | Buna-N        | SG70RJ118S         |
| G70R-J158S    | 15.80 |           |       |       |                          |                   |                       | Buna-N        | SG70RJ158S         |
| G70R-160S     | 16.00 | 4R        | 35.6  | 73    | 3/8"BSPP External Thread | 10Bar             | 316 Stainless Steel   | Neoprene      | SG70R160S          |
| G70R-170S     | 17.00 |           |       |       |                          |                   |                       |               | SG70R170S          |
| G70R-180S     | 18.00 |           |       |       |                          |                   |                       |               | SG70R180S          |
| G70R-190S     | 19.00 |           |       |       |                          |                   |                       |               | SG70R190S          |
| G70R-200S     | 20.00 | 4R        | 35.6  | 74    | 1/2"BSPP Internal Thread | 10Bar             | 316 Stainless Steel   | Neoprene      | SG70R200S          |
| G70R-160S-085 | 16.00 |           |       |       |                          |                   |                       |               | SG70R160S          |
| G70R-190S-085 | 19.00 |           |       |       |                          |                   |                       |               | SG70R190S          |
| G70R-200S-085 | 20.00 |           |       |       |                          |                   |                       |               | SG70R200S          |
| G70R-190      | 19.00 | 5R        | 40.6  | 70    | 3/8"BSPP External Thread | 10Bar             | 316 Stainless Steel   | Neoprene      | SG70R190           |
| G70R-200      | 20.00 |           |       |       |                          |                   |                       |               | SG70R200           |

# G70 Special-shaped tube connectors

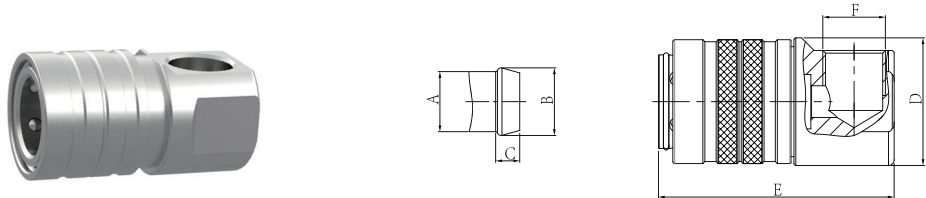
One-stop connection solution

Instant | Convenient | Standard | High quality



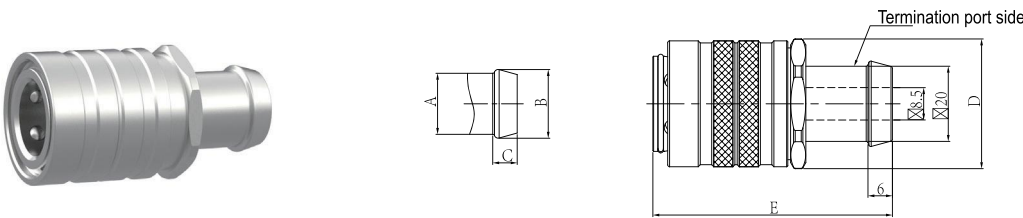
Flange tube ball connector

| Part Number | Dim A | Dim B | Dim C | Dim D | Dim E | Termination Port F |
|-------------|-------|-------|-------|-------|-------|--------------------|
| G70B-160065 | 16    | 18    | 4.5-7 | 34    | 63    | G3/8"              |
| G70B-190085 | 16    | 18    | 4.5-7 | 34    | 63    | G1/2"              |
| G70B-200085 |       |       |       |       |       |                    |



Flange tube ball connector

| Part Number                | Dim A | Dim B | Dim C | Dim D | Dim E | Termination Port F |
|----------------------------|-------|-------|-------|-------|-------|--------------------|
| G70B-190085L               | 20    | 22    | 4.5-7 | 38    | 65    | G3/8"              |
| G70B-200085L               |       |       |       |       |       |                    |
| G70BV-190085L (with valve) |       |       |       |       |       |                    |
| G70BV-200085L (with valve) |       |       |       |       |       |                    |



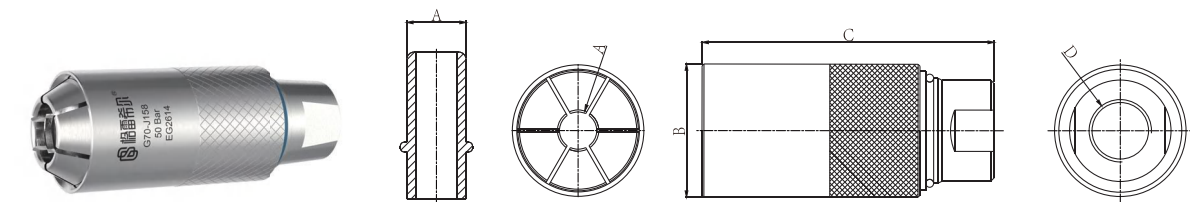
Flange tube ball connector

| Part Number  | Dim A | Dim B | Dim C | Dim D | Dim E |
|--------------|-------|-------|-------|-------|-------|
| G70B-160T200 | 16    | 18    | 4.5-7 | 38    | 70    |

# G70J Fuel rail connectors

One-stop connection solution

Instant | Convenient | Standard | High quality



Fuel rail connector – Complying with J2044

| Part Number | Dim A      | Body Size | Dim B | Dim C | Termination Port D | Maximum Pressure | Material of main body | Seal Material | Main Seals Package |
|-------------|------------|-----------|-------|-------|--------------------|------------------|-----------------------|---------------|--------------------|
| G70-J063    | 6.30±0.06  | 2         | 25    | 75    | 1/4"BSPP           | 50Bar            | 316 Stainless Steel   | Buna-N        | SG70J063           |
| G70-J079    | 7.89±0.06  |           |       |       |                    |                  |                       |               | SG70J079           |
| G70-J095    | 9.49±0.06  | 3         | 30    | 80    |                    |                  |                       |               | SG70J095           |
| G70-J099    | 9.89±0.06  |           |       |       |                    |                  |                       |               | SG70J099           |
| G70-J110    | 11.05±0.10 |           |       |       |                    |                  |                       |               | SG70J110           |
| G70-J118    | 11.80±0.10 |           |       |       |                    |                  |                       |               | SG70J118           |
| G70-J126    | 12.61±0.10 | 4         | 35    | 86    | 3/8"BSPP           |                  |                       |               | SG70J126           |
| G70-J158    | 15.82±0.10 |           |       |       |                    |                  |                       |               | SG70J158           |
| G70-J189    | 18.90±0.10 | 5         | 40    | 87    | 1/2"BSPP           |                  |                       |               | SG70J189           |
| G70-J227    | 22.70±0.15 | 6         | 46    | 90    | 3/4"BSPP           |                  |                       |               | SG70J227           |
| G70-J255    | 25.50±0.15 |           |       |       |                    |                  |                       |               | SG70J255           |
| G70-J284    | 28.42±0.15 | 7         | 50    | 90    | 3/4"BSPP           |                  |                       |               | SG70J284           |

Fuel rail connector with valve – Complying with J2044

| Part Number | Dim A      | Body Size | Dim B | Dim C | Termination Port D | Maximum Pressure | Material of main body | Seal Material | Main Seals Package |
|-------------|------------|-----------|-------|-------|--------------------|------------------|-----------------------|---------------|--------------------|
| G70-J063V   | 6.30±0.06  | 2         | 25    | 75    | 1/4"BSPP           | 50Bar            | 316 Stainless Steel   | Buna-N        | SG70J063           |
| G70-J079V   | 7.89±0.06  |           |       |       | 1/4"BSPP           |                  |                       |               | SG70J079           |
| G70-J095V   | 9.49±0.06  | 3         | 30    | 80    | 1/4"BSPP           |                  |                       |               | SG70J095           |
| G70-J118V   | 11.80±0.10 |           |       |       | 1/4"BSPP           |                  |                       |               | SG70J118           |
| G70-J158V   | 15.82±0.10 | 4         | 35    | 86    | 3/8"BSPP           |                  |                       |               | SG70J158           |

## G70V connector with the built-in shut-off valve:

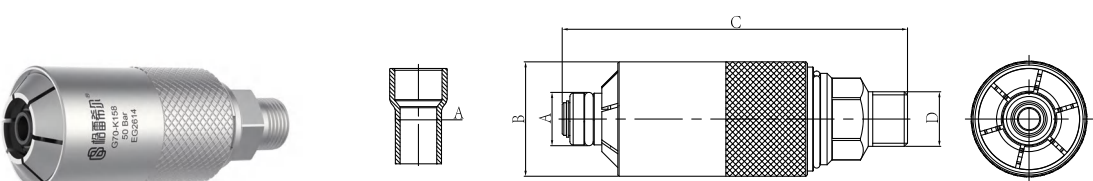
G70V series and G70 series have the same appearance, G70V has a built-in shut-off valve, with a maximum pressure capacity of 50 bar. When the connector is disconnected a port, the built-in valve is in a closed state, which prevents the leakage of medium inside the connector, such as helium or fluids.

The internal structure and valve of the connector are both designed in a straight-through manner, minimizing pressure and flow losses during testing. The internal structural components are made of SUS316, and the seals are made of corrosion-resistant nitrile rubber, greatly ensuring the service life and versatility of the connector.

# G70K Connectors for the refrigeration industry

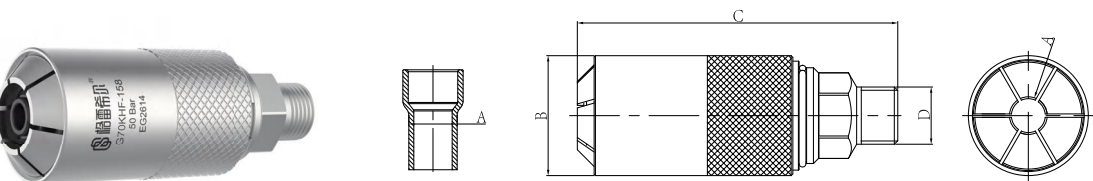
One-stop connection solution

Instant | Convenient | Standard | High quality



Connectors for leak tests of expansion pipes in the refrigeration industry

| Part Number | Dim A | Body Size | Dim B | Dim C | External Thread (D) | Maximum Pressure | Material of main body | Seal Material | Main Seals Package |
|-------------|-------|-----------|-------|-------|---------------------|------------------|-----------------------|---------------|--------------------|
| G70-K095    | 9.52  | 3         | 30    | 90    | 3/8"BSPT            | 70Bar            | 316 Stainless Steel   | Buna-N        | SG70K095           |
| G70-K127    | 12.7  | 3         | 30    | 90    |                     |                  |                       |               | SG70K127           |
| G70-K158    | 15.8  | 4         | 35    | 95    |                     |                  |                       |               | SG70K158           |
| G70-K190    | 19    | 5         | 40    | 110   |                     |                  |                       |               | SG70K190           |
| G70-K222    | 22.2  | 5         | 40    | 110   |                     |                  |                       |               | SG70K222           |
| G70-K254    | 25.4  | 6         | 46    | 110   |                     |                  |                       |               | SG70K254           |
| G70-K285    | 28.5  | 7         | 50    | 120   |                     |                  |                       |               | SG70K285           |



Connectors for running tests of expansion pipes in the refrigeration industry

| Part Number | Dim A | Body Size | Dim B | Dim C | External Thread (D) | Maximum Pressure | Material of main body | Seal Material | Main Seals Package |
|-------------|-------|-----------|-------|-------|---------------------|------------------|-----------------------|---------------|--------------------|
| G70KHF-095  | 9.52  | 3         | 30    | 90    | 1/4"BSPT            | 70Bar            | 316 Stainless Steel   | Buna-N        | SG70KHF095         |
| G70KHF-127  | 12.7  | 3         | 30    | 90    | 3/8"BSPT            |                  |                       |               | SG70KHF127         |
| G70KHF-158  | 15.8  | 4         | 35    | 95    | 1/2"BSPT            |                  |                       |               | SG70KHF158         |
| G70KHF-190  | 19    | 5         | 40    | 110   | 3/4"BSPT            |                  |                       |               | SG70KHF190         |
| G70KHF-222  | 22.2  | 5         | 40    | 110   | 3/4"BSPT            |                  |                       |               | SG70KHF222         |

All GripSeal connectors have incorporated safety design into their design. However, the connector users have the responsibility to design their own safety measures to avoid property damage caused by improper size or other reasons. For example, safety chains, protective nets, protective cages, or specialized fixtures are all excellent protective measures.

GripSeal can also provide or assist clients in identifying potential security threats.



# G70L

Lightweight version connectors

Instant | Convenient | Standard | High quality

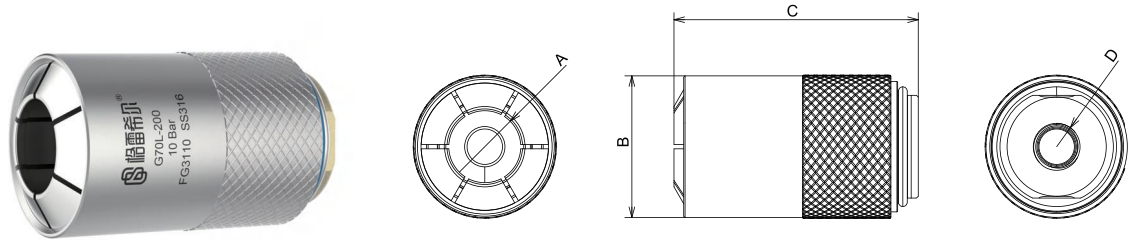
One-stop connection solution

# G70P

Non-destructive connectors

Non-destructive locking | Manual operation | Full range of models | Polymer materials | High flow | OD sealing

One-stop connection solution



G70L lightweight version

| Part Number | Dim A | Body Size | Dim B | Dim C | Termination Port D | Maximum Pressure | Material of main body            | Seal Material | Main Seals Package |
|-------------|-------|-----------|-------|-------|--------------------|------------------|----------------------------------|---------------|--------------------|
| G70L-140    | 14.0  | 4         | 35.4  | 69    | 1/4"BSPP           | 10 Bar           | Stainless Steel + Aluminum alloy | Neoprene      | SG70L140065        |
| G70L-150    | 15.0  |           |       |       |                    |                  |                                  |               | SG70L150065        |
| G70L-160    | 16.0  |           |       |       |                    |                  |                                  |               | SG70L160065        |
| G70L-170    | 17.0  |           |       |       |                    |                  |                                  |               | SG70L170065        |
| G70L-180    | 18.0  | 5         | 40.4  | 70    |                    |                  |                                  |               | SG70L180085        |
| G70L-190    | 19.0  |           |       |       |                    |                  |                                  |               | SG70L190085        |
| G70L-200    | 20.0  |           |       |       |                    |                  |                                  |               | SG70L200085        |
| G70L-210    | 21.0  |           |       |       |                    |                  |                                  |               | SG70L210085        |
| G70L-220    | 22.0  |           |       |       |                    |                  |                                  |               | SG70L220085        |
| G70L-230    | 23.0  | 6         | 46.4  | 81    |                    |                  |                                  |               | SG70L230125        |
| G70L-240    | 24.0  |           |       |       |                    |                  |                                  |               | SG70L240125        |
| G70L-250    | 25.0  |           |       |       |                    |                  |                                  |               | SG70L250125        |
| G70L-260    | 26.0  |           |       |       |                    |                  |                                  |               | SG70L260125        |
| G70L-270    | 27.0  |           |       |       |                    |                  |                                  |               | SG70L270125        |
| G70L-280    | 28.0  | 7         | 50.6  | 80    |                    |                  |                                  |               | SG70L280125        |
| G70L-290    | 29.0  |           |       |       |                    |                  |                                  |               | SG70L290125        |
| G70L-300    | 30.0  |           |       |       |                    |                  |                                  |               | SG70L300125        |
| G70L-310    | 31.0  |           |       |       |                    |                  |                                  |               | SG70L310125        |
| G70L-320    | 32.0  |           |       |       |                    |                  |                                  |               | SG70L320125        |
| G70L-330    | 33.0  | 8         | 55.6  | 80    |                    |                  |                                  |               | SG70L330125        |
| G70L-340    | 34.0  |           |       |       |                    |                  |                                  |               | SG70L340125        |
| G70L-350    | 35.0  |           |       |       |                    |                  |                                  |               | SG70L350125        |
| G70L-360    | 36.0  |           |       |       |                    |                  |                                  |               | SG70L360125        |
| G70L-370    | 37.0  |           |       |       |                    |                  |                                  |               | SG70L370125        |
| G70L-380    | 38.0  |           |       |       |                    |                  |                                  |               | SG70L380125        |
| G70L-390    | 39.0  |           |       |       |                    |                  |                                  |               | SG70L390125        |
| G70L-400    | 40.0  |           |       |       |                    |                  |                                  |               | SG70L400125        |

G70P is a special version developed based on the traditional G70. It is designed to prevent scratches on customers' products made of aluminum alloy or engineering plastic. Improvements have been made to the collets, which come into contact with the surface of customer products. While ensuring functional requirements such as the sealing performance of the connector and service life of the collet, G70P can achieve non-destructive connection of customer products.

### Non-destructive connectors

- \* Collets made of polymer materials, achieving non-destructive connection
- \* Sliding sleeve actuated operation, which is an ergonomic design to facilitate operation
- \* Straight-through channel for high flow and low pressure loss
- \* Safety blue ring to ensure safety
- \* Molded seals for good sealing performance and long service life

Features of G70P series quick connectors

1. Collets for locking  
The test pressure can reach up to 1Mpa.
2. Collets made of polymer materials  
For the contact area with the customer's product, embedded collets made of polymer material are used to prevent scratches to the customer's product.
3. Sliding sleeve actuated operation  
The ergonomic design facilitates operation.
4. Straight-through design  
The large flow diameter is perfect for fluid flow tests such as the aging test.

Body sizes





# G70P Non-destructive connectors

One-stop connection solution

Non-destructive locking | Manual operation | Full range of models | Polymer materials | High flow | OD sealing

# G70P Non-destructive connectors

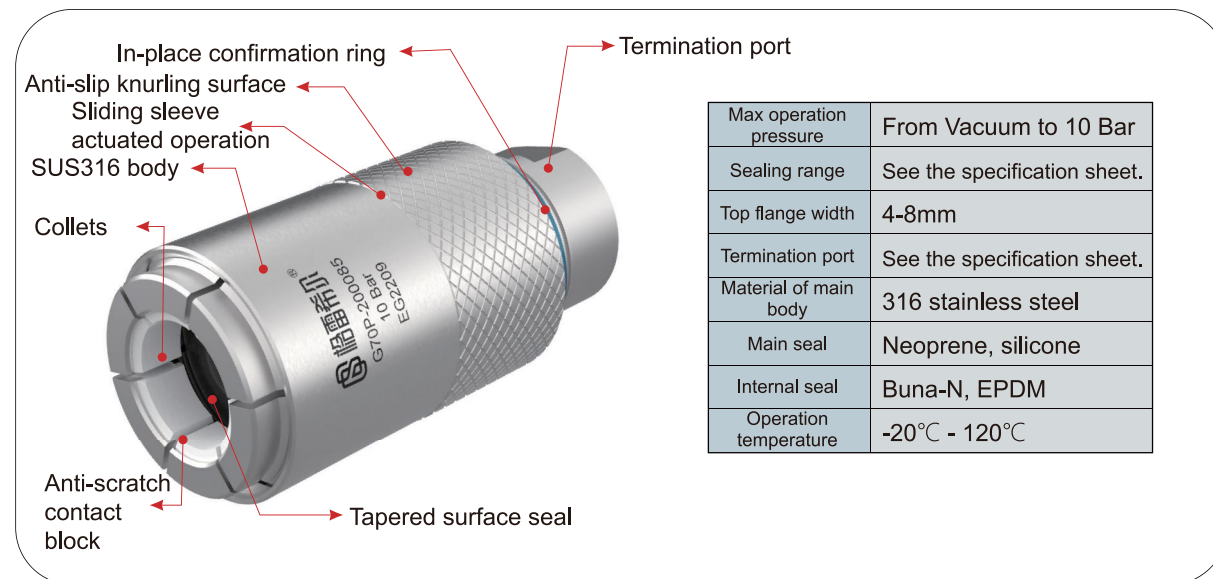
One-stop connection solution

Non-destructive locking | Manual operation | Full range of models | Polymer materials | High flow | OD sealing

## Advantages of G70P quick connectors



## Specifications of G70P quick connectors



### How to use G70P



1. Align the connector with the pipe fitting that needs to be sealed.



2. Push the connector into the pipe fitting.

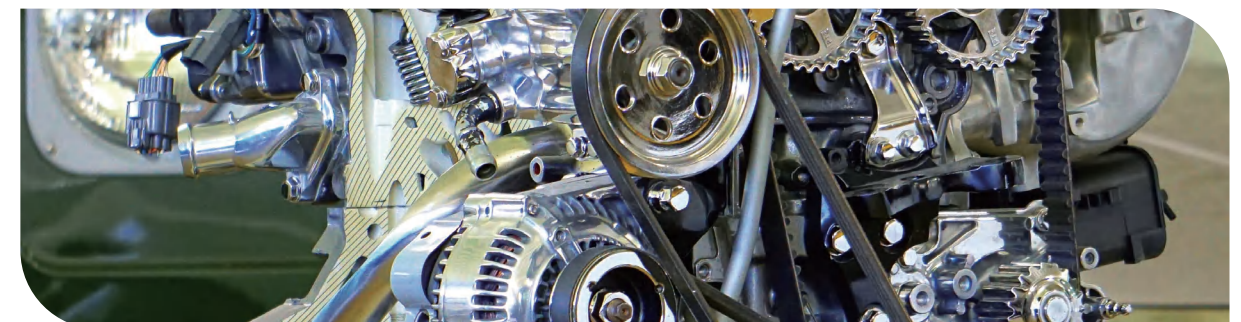
## Applications



Battery water-cooling plate test



Motor cooling system



Engine cooling tube test



# G70P

Non-destructive connectors

One-stop connection solution

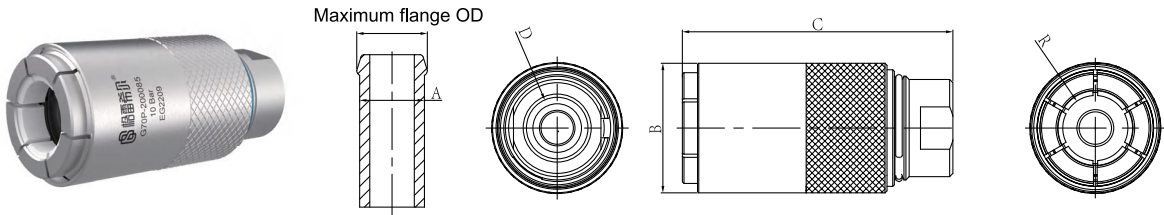
Non-destructive locking | Manual operation | Full range of models | Polymer materials | High flow | OD sealing

# G70P

Non-destructive connectors

One-stop connection solution

Non-destructive locking | Manual operation | Full range of models | Polymer materials | High flow | OD sealing



Cooling tube connector specification sheet

| Part Number | Dim A | Body Size | Dim B | Dim C | Termination Port D | Maximum Pressure* | Material of main body | Seal Material | Main Seals Package |
|-------------|-------|-----------|-------|-------|--------------------|-------------------|-----------------------|---------------|--------------------|
| G70P-080025 | 8.0   | 2         | 25.6  | 80    | 1/4"BSPP           | 10Bar             | 316 Stainless Steel   | Neoprene      | SG70P080025        |
| G70P-090025 | 9.0   |           |       |       |                    |                   |                       |               | SG70P090025        |
| G70P-100045 | 10.0  |           |       |       |                    |                   |                       |               | SG70P100045        |
| G70P-110045 | 11.0  |           |       |       |                    |                   |                       |               | SG70P110045        |
| G70P-120045 | 12.0  |           |       |       |                    |                   |                       |               | SG70P120045        |
| G70P-130045 | 13.0  | 3         | 30.6  | 80    | 1/4"BSPP           | 10Bar             | 316 Stainless Steel   | Neoprene      | SG70P130045        |
| G70P-140065 | 14.0  |           |       |       |                    |                   |                       |               | SG70P140065        |
| G70P-150065 | 15.0  |           |       |       |                    |                   |                       |               | SG70P150065        |
| G70P-160065 | 16.0  |           |       |       |                    |                   |                       |               | SG70P160065        |
| G70P-170065 | 17.0  |           |       |       |                    |                   |                       |               | SG70P170065        |
| G70P-180085 | 18.0  | 4         | 35.6  | 83    | 3/8"BSPP           | 10Bar             | 316 Stainless Steel   | Neoprene      | SG70P180085        |
| G70P-190085 | 19.0  |           |       |       |                    |                   |                       |               | SG70P190085        |
| G70P-200085 | 20.0  |           |       |       |                    |                   |                       |               | SG70P200085        |
| G70P-210085 | 21.0  |           |       |       |                    |                   |                       |               | SG70P210085        |
| G70P-220085 | 22.0  |           |       |       |                    |                   |                       |               | SG70P220085        |
| G70P-230125 | 23.0  | 5         | 40.6  | 85    | 1/2"BSPP           | 10Bar             | 316 Stainless Steel   | Neoprene      | SG70P230125        |
| G70P-240125 | 24.0  |           |       |       |                    |                   |                       |               | SG70P240125        |
| G70P-250125 | 25.0  |           |       |       |                    |                   |                       |               | SG70P250125        |
| G70P-260125 | 26.0  |           |       |       |                    |                   |                       |               | SG70P260125        |
| G70P-270125 | 27.0  |           |       |       |                    |                   |                       |               | SG70P270125        |
| G70P-280125 | 28.0  | 6         | 46.6  | 93    | 3/4"BSPP           | 10Bar             | 316 Stainless Steel   | Neoprene      | SG70P280125        |
| G70P-290125 | 29.0  |           |       |       |                    |                   |                       |               | SG70P290125        |
| G70P-300125 | 30.0  |           |       |       |                    |                   |                       |               | SG70P300125        |
| G70P-310125 | 31.0  |           |       |       |                    |                   |                       |               | SG70P310125        |
| G70P-320125 | 32.0  |           |       |       |                    |                   |                       |               | SG70P320125        |
| G70P-330125 | 33.0  | 7         | 50.6  | 93    | 3/4"BSPP           | 10Bar             | 316 Stainless Steel   | Neoprene      | SG70P330125        |
| G70P-340125 | 34.0  |           |       |       |                    |                   |                       |               | SG70P340125        |
| G70P-350125 | 35.0  |           |       |       |                    |                   |                       |               | SG70P350125        |
| G70P-360125 | 36.0  |           |       |       |                    |                   |                       |               | SG70P360125        |
| G70P-370125 | 37.0  |           |       |       |                    |                   |                       |               | SG70P370125        |
| G70P-380125 | 38.0  | 8         | 55.6  | 93    | 3/4"BSPP           | 10Bar             | 316 Stainless Steel   | Neoprene      | SG70P380125        |
| G70P-390125 | 39.0  |           |       |       |                    |                   |                       |               | SG70P390125        |
| G70P-400125 | 40.0  |           |       |       |                    |                   |                       |               | SG70P400125        |
| G70P-400    | 40.0  |           |       |       |                    |                   |                       |               | SG70P-400          |
| G70P-410    | 41.0  |           |       |       |                    |                   |                       |               | SG70P-400          |
| G70P-420    | 42.0  | 9         | 66    | 110.5 | 1"BSPP             | 2Bar              | 316 Stainless Steel   | Neoprene      | SG70P-400          |
| G70P-430    | 43.0  |           |       |       |                    |                   |                       |               | SG70P-400          |
| G70P-440    | 44.0  |           |       |       |                    |                   |                       |               | SG70P-400          |
| G70P-450    | 45.0  |           |       |       |                    |                   |                       |               | SG70P-400          |
| G70P-460    | 46.0  |           |       |       |                    |                   |                       |               | SG70P-400          |
| G70P-470    | 47.0  |           |       |       |                    |                   |                       |               | SG70P-400          |
| G70P-480    | 48.0  |           |       |       |                    |                   |                       |               | SG70P-400          |

Cooling tube connector specification sheet

| Part Number | Dim A | Body Size | Dim B | Dim C | Termination Port D | Maximum Pressure* | Material of main body | Seal Material | Main Seals Package |
|-------------|-------|-----------|-------|-------|--------------------|-------------------|-----------------------|---------------|--------------------|
| G70P-490D1  | 49    | 10        | 79    | 113   | 1"BSPP - 1/4"BSPP  | 2Bar              | Aluminum alloy        | Neoprene.     | SG70P-490D1        |
| G70P-500D1  | 50    |           |       |       |                    |                   |                       |               | SG70P-490D1        |
| G70P-510D1  | 51    |           |       |       |                    |                   |                       |               | SG70P-490D1        |
| G70P-520D1  | 52    |           |       |       |                    |                   |                       |               | SG70P-490D1        |
| G70P-530D1  | 53    |           |       |       |                    |                   |                       |               | SG70P-490D1        |
| G70P-540D1  | 54    |           |       |       |                    |                   |                       |               | SG70P-490D1        |
| G70P-550D1  | 55    |           |       |       |                    |                   |                       |               | SG70P-490D1        |
| G70P-560D1  | 56    |           |       |       |                    |                   |                       |               | SG70P-490D1        |
| G70P-570D1  | 57    |           |       |       |                    |                   |                       |               | SG70P-570D1        |
| G70P-580D1  | 58    | 11        | 89    | 118   | 1"BSPP - 3/4"BSPP  | 2Bar              | Aluminum alloy        | Neoprene.     | SG70P-570D1        |
| G70P-590D1  | 59    |           |       |       |                    |                   |                       |               | SG70P-570D1        |
| G70P-600D1  | 60    |           |       |       |                    |                   |                       |               | SG70P-570D1        |
| G70P-610D1  | 61    |           |       |       |                    |                   |                       |               | SG70P-570D1        |
| G70P-620D1  | 62    |           |       |       |                    |                   |                       |               | SG70P-570D1        |
| G70P-630D1  | 63    |           |       |       |                    |                   |                       |               | SG70P-570D1        |
| G70P-640D1  | 64    |           |       |       |                    |                   |                       |               | SG70P-570D1        |
| G70P-650D1  | 65    |           |       |       |                    |                   |                       |               | SG70P-570D1        |
| G70P-660D1  | 66    |           |       |       |                    |                   |                       |               | SG70P-570D1        |
| G70P-670D1  | 67    |           |       |       |                    |                   |                       |               | SG70P-570D1        |
| G70P-680D1  | 68    |           |       |       |                    |                   |                       |               | SG70P-570D1        |

G70P (BS10 - BS11)



BS10

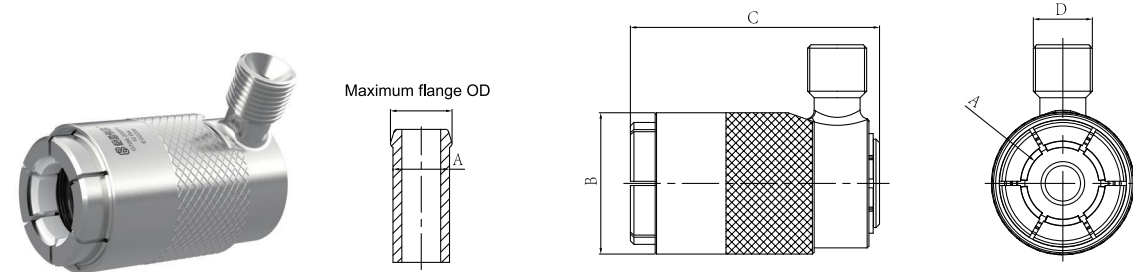


BS11

# G70P Non-destructive connectors

One-stop connection solution

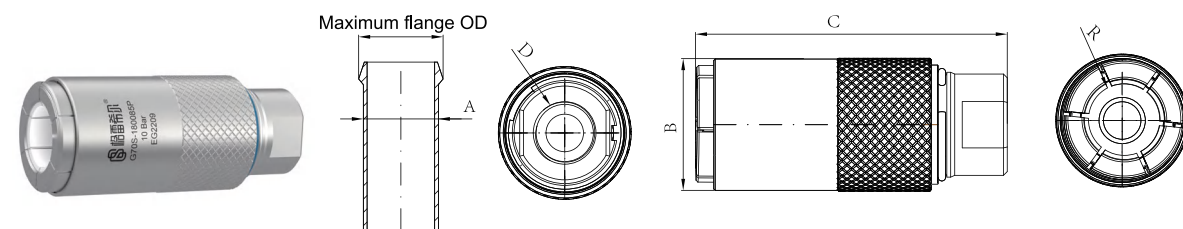
Non-destructive locking | Manual operation | Full range of models | Polymer materials | High flow | OD sealing



## G70RP non-destructive connectors

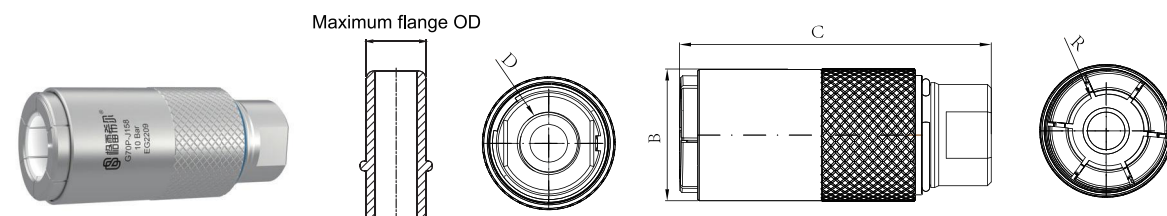
| Part Number  | Dim A | Body Size | Dim B | Dim C | Termination Port D | Maximum Pressure* | Material of main body | Seal Material | Main Seals Package |
|--------------|-------|-----------|-------|-------|--------------------|-------------------|-----------------------|---------------|--------------------|
| G70R - J118P | 11.8  | 3R        | 30.6  | 68    | 3/8"BSPP           | 10Bar             | 316 SS                | Buna-N        | SG70RJ118P         |
| G70R - J158P | 15.8  | 4R        | 35.6  | 73    | 3/8"BSPP           | 10Bar             | 316 Stainless Steel   | Buna-N        | SG70RJ158P         |
| G70R - 160P  | 16.0  |           |       |       |                    |                   |                       | Neoprene      | SG70R160P          |
| G70R - 190P  | 19.0  | 5R        | 40.6  | 71    | 3/8"BSPP           | 10Bar             | 316 Stainless Steel   | Neoprene      | SG70R190P          |
| G70R - 200P1 | 20.0  |           |       |       |                    |                   |                       |               | SG70R200P1         |

\* There are other types of threaded termination port specifications, including G1/2 internal thread, G3/8 external thread flat mouth, pagoda, etc. For more information, please contact us.



## G70SP small body non-destructive connector

| Part Number  | Dim A | Body Size | Dim B | Dim C | Termination Port D | Maximum Pressure* | Material of main body | Seal Material | Main Seals Package |
|--------------|-------|-----------|-------|-------|--------------------|-------------------|-----------------------|---------------|--------------------|
| G70S-160085P | 16.0  | 4S        | 35.6  | 83    | 3/8"BSPP           | 10Bar             | 316 Stainless Steel   | Neoprene      | SG70S160085P       |
| G70S-170085P | 17.0  |           |       |       |                    |                   |                       |               | SG70S170085P       |
| G70S-180085P | 18.0  |           |       |       |                    |                   |                       |               | SG70S180085P       |
| G70S-190085P | 19.0  | 5S        | 35.6  | 83    | 1/2"BSPP           | 10Bar             | 316 Stainless Steel   | Neoprene      | SG70S190085P       |
| G70S-200085P | 20.0  |           |       |       |                    |                   |                       |               | SG70S200085P       |



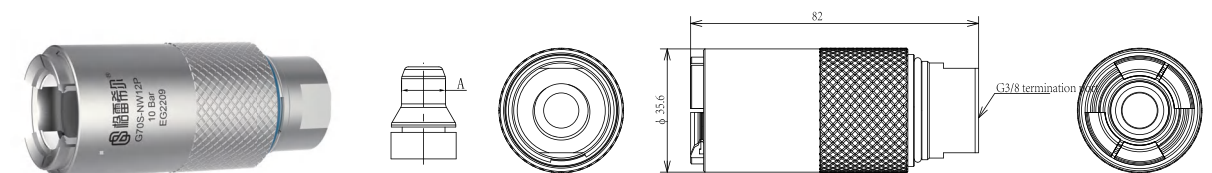
## G70PJ short non-destructive connectors

| Part Number | Dim A      | Body Size | Dim B | Dim C | Termination Port D | Maximum Pressure* | Material of main body. | Seal Material | Main Seals Package |
|-------------|------------|-----------|-------|-------|--------------------|-------------------|------------------------|---------------|--------------------|
| G70P-J079   | 7.89±0.06  | 2         | 25.6  | 80    | 1/4"BSPP           | 10 Bar            | 316 SS                 | Buna-N        | SG70PJ079          |
| G70P-J095   | 9.49±0.06  | 3         | 30.6  | 80    | 1/4"BSPP           | 10 Bar            | 316 Stainless Steel    | Buna-N        | SG70PJ095          |
| G70P-J118   | 11.80±0.10 |           |       |       |                    |                   |                        |               | SG70PJ118          |
| G70P-J126   | 12.61±0.10 | 4         | 35.6  | 83    | 3/8"BSPP           | 10 Bar            | 316 Stainless Steel    | Buna-N        | SG70PJ126          |
| G70P-J158   | 15.82±0.10 |           |       |       |                    |                   |                        |               | SG70PJ158          |

# G70P Non-destructive connectors

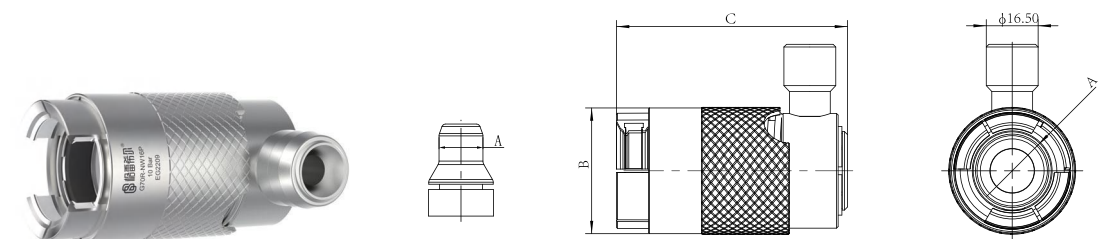
One-stop connection solution

Non-destructive locking | Manual operation | Full range of models | Polymer materials | High flow | OD sealing



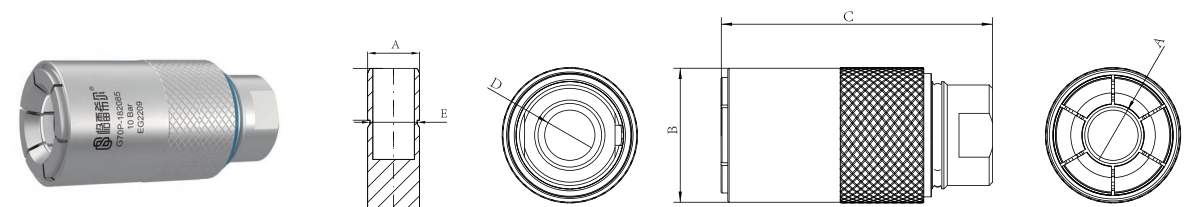
## G70S NW connectors (4 threads) straight-through

| Part Number | Dim A | Body Size | Dim B | Dim C | Termination Port D | Maximum Pressure* | Material of main body | Seal Material | Main Seals Package |
|-------------|-------|-----------|-------|-------|--------------------|-------------------|-----------------------|---------------|--------------------|
| G70S-NW12P  | 16.30 | 4S        | 35.6  | 82    | 3/8"BSPP           | 10 Bar            | 316 Stainless Steel   | Buna-N        | SG70SNW12P         |
| G70S-NW14P  | 17.50 |           |       |       |                    |                   |                       |               | SG70SNW14P         |
| G70S-NW16P  | 22.30 | 5S        | 40.6  | 90    | 3/8"BSPP           | 10 Bar            | 316 SS                | Buna-N        | SG70SNW16P         |



## G70RP NW connectors (4 threads) L-type swivel

| Part Number | Dim A | Body Size | Dim B | Dim C | Termination Port D | Maximum Pressure* | Material of main body | Seal Material | Main Seals Package |
|-------------|-------|-----------|-------|-------|--------------------|-------------------|-----------------------|---------------|--------------------|
| G70R-NW12P  | 16.30 | 4RS       | 35.6  | 75    | 3/8"BSPP           | 10 Bar            | 316 SS                | Buna-N        | SG70RNW12P         |
| G70R-NW16P  | 22.30 | 5RS       | 40.6  | 75    | 1/2"BSPP           | 10 Bar            | 316 SS                | Buna-N        | SG70RNW16P         |



## G70C CQC male connectors (groove tube) non-destructive connectors

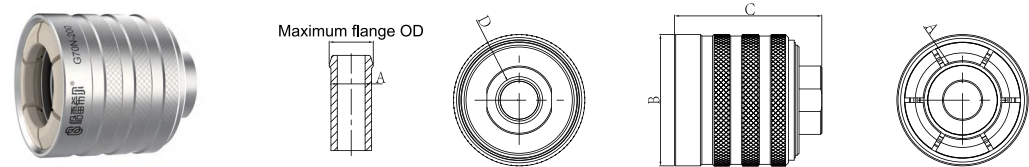
| Part Number | Dim E | Body Size | Dim B | Dim C | Termination Port D | Maximum Pressure* | Material of main body | Seal Material | Main Seals Package |
|-------------|-------|-----------|-------|-------|--------------------|-------------------|-----------------------|---------------|--------------------|
| G70P-122045 | 12.2  | 3         | 30.6  | 80    | 1/4"BSPP           | 10 Bar            | 316 SS                | Buna-N        | SG70P122045        |
| G70P-142065 | 14.2  | 4         | 35.6  | 80    | 3/8"BSPP           | 10 Bar            | 316 SS                | Buna-N        | SG70P142065        |
| G70P-162065 | 16.2  | 4         | 35.6  | 80    | 3/8"BSPP           | 10 Bar            | 316 SS                | Buna-N        | SG70P162085        |
| G70P-182085 | 18.2  | 5         | 40.6  | 83    | 1/2"BSPP           | 10 Bar            | 316 SS                | Buna-N        | SG70P182085        |



# G70P Non-destructive connectors

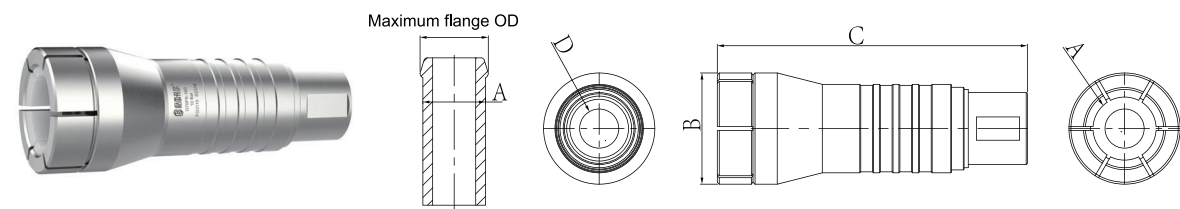
One-stop connection solution

Non-destructive locking | Manual operation | Full range of models | Polymer materials | High flow | OD sealing



G70N/G70PN miniature non-destructive connectors

| Part Number | Dim A | Body Size | Dim B | Dim C | Termination Port D | Maximum Pressure* | Collet Material  | Seal Material | Main Seals Package |
|-------------|-------|-----------|-------|-------|--------------------|-------------------|------------------|---------------|--------------------|
| G70N-080    | 8.0   | 1N        | 22    | 40    | 1/8"BSPP           | 10 Bar            | Stainless steel  | Neoprene      | SG70N080           |
| G70N-100    | 10.0  |           |       |       |                    |                   |                  |               | SG70N100           |
| G70N-120    | 12.0  |           |       |       |                    |                   |                  |               | SG70N120           |
| G70N-160    | 16.0  |           |       |       |                    |                   |                  |               | SG70N160           |
| G70N-170    | 17.0  | 2N        | 35    | 40    | 1/4"BSPP           | 10 Bar            | Stainless steel  | Neoprene      | SG70N170           |
| G70N-180    | 18.0  |           |       |       |                    |                   |                  |               | SG70N180           |
| G70N-190    | 19.0  |           |       |       |                    |                   |                  |               | SG70N190           |
| G70N-200    | 20.0  |           |       |       |                    |                   |                  |               | SG70N200           |
| G70N-220    | 22.0  |           |       |       |                    |                   |                  |               | SG70N220           |
| G70PN-080   | 8.0   | 1N        | 22    | 40    | 1/8"BSPP           | 10 Bar            | Polymer plastics | Neoprene      | SG70PN080          |
| G70PN-100   | 10.0  |           |       |       |                    |                   |                  |               | SG70PN100          |
| G70PN-120   | 12.0  |           |       |       |                    |                   |                  |               | SG70PN120          |
| G70PN-160   | 16.0  |           |       |       |                    |                   |                  |               | SG70PN160          |
| G70PN-170   | 17.0  | 2N        | 35    | 40    | 1/4"BSPP           | 10 Bar            | Polymer plastics | Neoprene      | SG70PN170          |
| G70PN-180   | 18.0  |           |       |       |                    |                   |                  |               | SG70PN180          |
| G70PN-190   | 19.0  |           |       |       |                    |                   |                  |               | SG70PN190          |
| G70PN-200   | 20.0  |           |       |       |                    |                   |                  |               | SG70PN200          |
| G70PN-220   | 22.0  |           |       |       |                    |                   |                  |               | SG70PN220          |



G70PS miniature non-destructive connectors

| Part Number | Dim A | Body Size | Dim B | Dim C | Termination Port D | Maximum Pressure* | Collet Material                          | Seal Material | Main Seals Package |
|-------------|-------|-----------|-------|-------|--------------------|-------------------|------------------------------------------|---------------|--------------------|
| G70PS-140   | 14.0  | 4PS       | 28.5  | 79    | 3/8"BSPP           | 10 Bar            | Stainless steel sleeve<br>Polymer collet | Neoprene      | SG70PS140          |
| G70PS-150   | 15.0  |           |       |       |                    |                   |                                          |               | SG70PS150          |
| G70PS-160   | 16.0  |           |       |       |                    |                   |                                          |               | SG70PS160          |
| G70PS-170   | 17.0  |           |       |       |                    |                   |                                          |               | SG70PS170          |
| G70PS-180   | 18.0  | 5PS       | 32    | 82    | 3/8"BSPP           | 10 Bar            | Stainless steel sleeve<br>Polymer collet | Neoprene      | SG70PS180          |
| G70PS-190   | 19.0  |           |       |       |                    |                   |                                          |               | SG70PS190          |
| G70PS-200   | 20.0  |           |       |       |                    |                   |                                          |               | SG70PS200          |
| G70PS-210   | 21.0  |           |       |       |                    |                   |                                          |               | SG70PS210          |
| G70PS-220   | 22.0  |           |       |       |                    |                   |                                          |               | SG70PS220          |

# G72 Flange tube connectors

One-stop connection solution

High pressure test | Surface seal | Pneumatic actuated | Full range of models | Simple operation | Diversified seal materials

The G72 series connectors are specialized connector for flanged or special-shaped pipe openings, which are actuated by air pressure and easy to operate. The aircraft-grade aluminum alloy body ensures durability while also ensuring the lightweight of the connector, greatly reducing the work intensity of the operator. A full range of models are provided to adapt to various sizes of flanged pipes. The straight-through design ensures high flow of the product, which can adapt to both the gas and liquid tests.



### Flange-type connection solution

- \* Improving efficiency and reducing production costs
- \* Reliable sealing and long service life
- \* Light weight and efficient, reducing work intensity
- \* Self-locking structure, applicable to the high pressure working environment

## Features of G72 series quick connectors

- 1. Straight-through design**  
There is only one sealing point, which reduces the risk of leakage and effectively minimizes the interference of scale deposits or impurities.
- 2. Pneumatic actuated**  
The button operation is simple and fast, improving work efficiency
- 3. Aluminum alloy body**  
The body is made of aircraft-grade aluminum alloy, which is light and durable.
- 4. G threaded test port**  
The G1/8 threaded test port on the lateral side is more suitable for international applications.

Body sizes





# G72 Flange tube connectors

One-stop connection solution

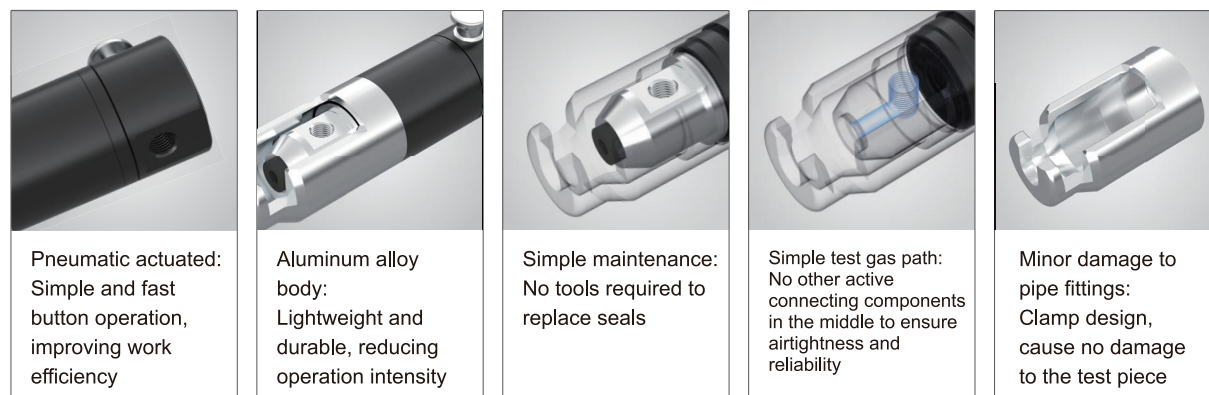
High pressure test | Surface seal | Pneumatic actuated | Full range of models | Simple operation | Diversified seal materials

# G72 Flange tube connectors

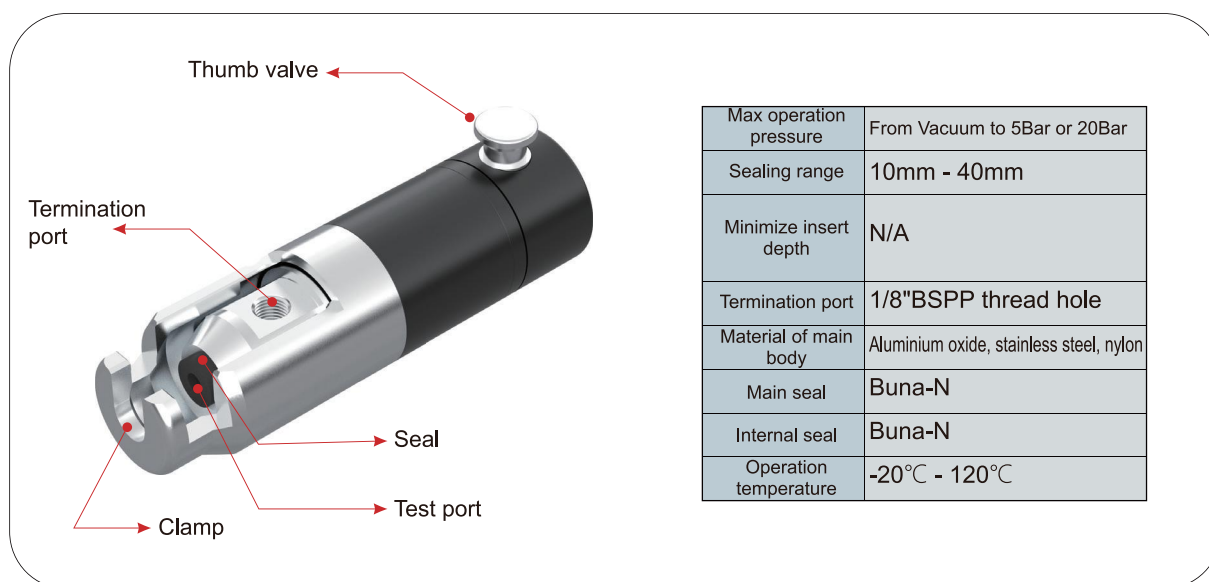
One-stop connection solution

High pressure test | Surface seal | Pneumatic actuated | Full range of models | Simple operation | Diversified seal materials

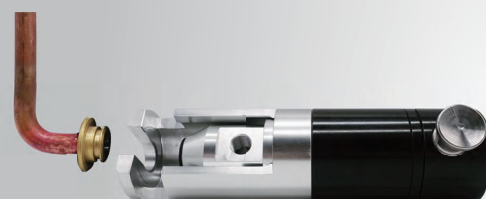
## Advantages of G72 quick connectors



## Specifications of G72 quick connectors



### How to use G72

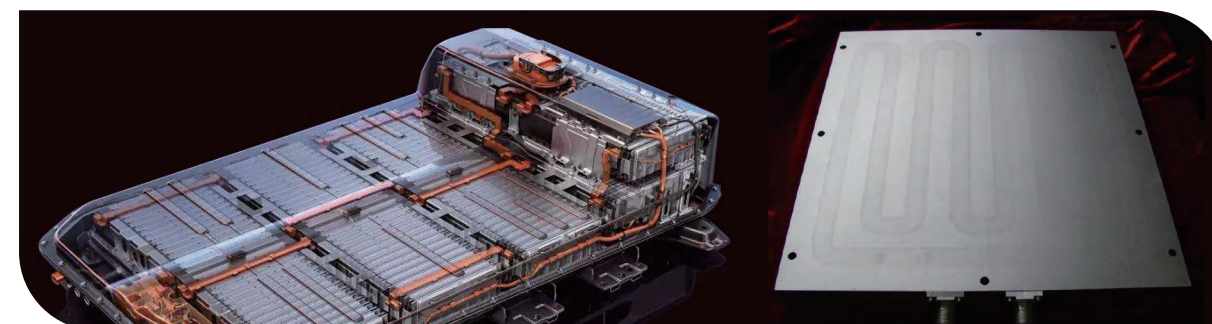


1. Press the thumb valve, and then the piston retreats to reveal the space for placing the test piece.

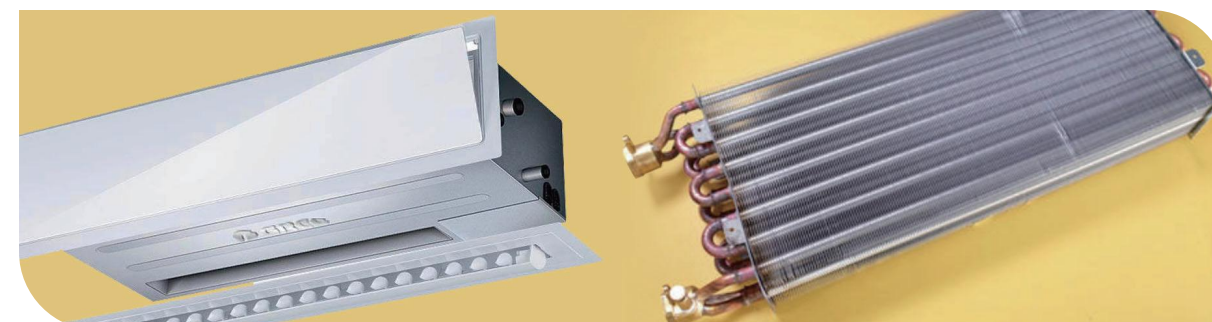


2. Place the front end of the test piece into the slot and keep the finger off the thumb valve, and then the piston moves against the test piece to form the sealing.

## Applications



Battery water-cooling plate test



Air conditioner radiator test



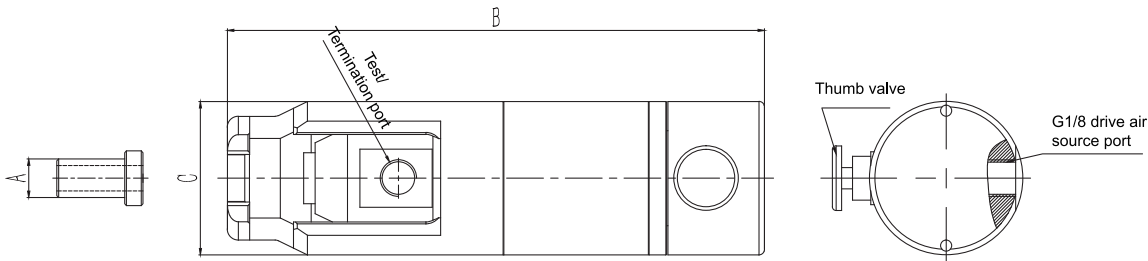
Engine cooling tube test



# G72 Flange tube connectors

One-stop connection solution

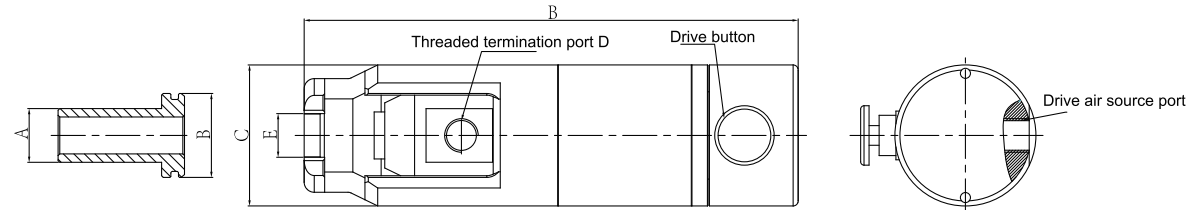
High pressure test | Surface seal | Pneumatic actuated | Full range of models | Simple operation | Diversified seal materials



Specification sheet of flange tube connectors

| Part Number | Dim A | Body Size | Dim B | Dim C | Termination Port D   | Maximum Pressure | Material of main body | Seal Material | Main Seals Package |
|-------------|-------|-----------|-------|-------|----------------------|------------------|-----------------------|---------------|--------------------|
| G72-120     | 12    | 1         |       | 30    | 1/8"BSPP             | 5Bar             | Aluminum alloy        | Neoprene      | SG72120            |
| G72-130     | 13    |           |       |       |                      |                  |                       |               | SG72130            |
| G72-140     | 14    |           |       |       |                      |                  |                       |               | SG72140            |
| G72-150     | 15    |           |       |       |                      |                  |                       |               | SG72150            |
| G72-160     | 16    |           |       |       |                      |                  |                       |               | SG72160            |
| G72-170     | 17    | 2         | 147   | 42    | 1/8"BSPP or 1/4"BSPP | 5Bar             | Aluminum alloy        | Neoprene      | SG72170            |
| G72-180     | 18    |           |       |       |                      |                  |                       |               | SG72180            |
| G72-190     | 19    |           |       |       |                      |                  |                       |               | SG72190            |
| G72-200     | 20    |           |       |       |                      |                  |                       |               | SG72200            |
| G72-210     | 21    |           |       |       |                      |                  |                       |               | SG72210            |
| G72-220     | 22    |           |       |       |                      |                  |                       |               | SG72220            |
| G72-230     | 23    |           |       |       |                      |                  |                       |               | SG72230            |
| G72-240     | 24    |           |       |       |                      |                  |                       |               | SG72240            |
| G72-250     | 25    |           |       |       |                      |                  |                       |               | SG72250            |
| G72-260     | 26    |           |       |       |                      |                  |                       |               | SG72260            |

Note:  
Variations in the shape of the tubing will cause changes in the body size of the connector, and the maximum test pressure is dependent on the shape of the tubing and the pilot pressure.  
The seal material can be customized according to customers' special requirements.



Dedicated for water heaters (Flange tube)

| Part Number | Dim A | Dim E | Body Size | Dim B | Dim C | Termination Port D | Maximum Pressure | Material of main body | Seal Material | Main Seals Package |
|-------------|-------|-------|-----------|-------|-------|--------------------|------------------|-----------------------|---------------|--------------------|
| G72-120A    | 12    | 16    | 2         | 147   | 30    | 1/8"BSPP           | 20 Bar           | Aluminum alloy        | Neoprene      | SG72120A           |
| G72-120B    | 12    | 22    |           |       |       |                    |                  |                       |               | SG72120B           |
| G72-120C    | 12    | 30    |           |       |       |                    |                  |                       |               | SG72120C           |

# G72R Flange tube connectors

One-stop connection solution

High pressure test | Surface seal | Pneumatic actuated | Full range of models | Simple operation | Diversified seal materials

The G72R series connectors are specialized connector for special-shaped pipe openings of radiators. G72R can seal 2 densely-distributed pipe openings simultaneously, solving the sealing problem in a narrow space. G72R is actuated by air pressure and easy to operate. The aircraft-grade aluminum alloy body ensures durability while also ensuring the lightweight of the connector, greatly reducing the work intensity of the operator. A full range of models are provided to adapt to various sizes of flanged pipes. The straight-through design ensures high flow of the product, which can adapt to both the gas and liquid tests.



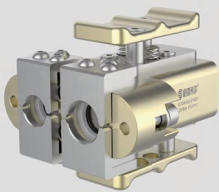
Flange-type connection solution

- \* Improving efficiency and reducing production costs
- \* Reliable sealing and long service life
- \* Light weight and efficient, reducing work intensity
- \* Self-locking structure, applicable to the high pressure working environment

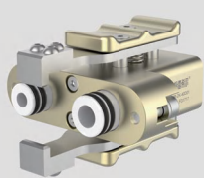
## Features of G72R series quick connectors

1. Lever actuated operation  
You can press the lever to open the collets and then place the test piece. After you release the lever, the collets automatically retract and grip the test piece tightly to complete the connection for ventilation testing.
2. Test port  
A G-threaded test port is available at the tail, and can be customized as needed. The test port is G1/8 threaded by default.
3. Aluminum alloy body  
The body is made of aircraft-grade aluminum alloy, which is light and durable.
4. Stainless steel collets  
The collets are made of stainless steel, which can ensure a maximum pressure of 50 bar and is also corrosion resistant.

Body sizes



G72R-2G-270D1 (Dual-tube)



G72R-2K-40D01 (Dual-hole)



G72R-1K-155-L200 (Single-tube)

# G72R Flange tube connectors

One-stop connection solution

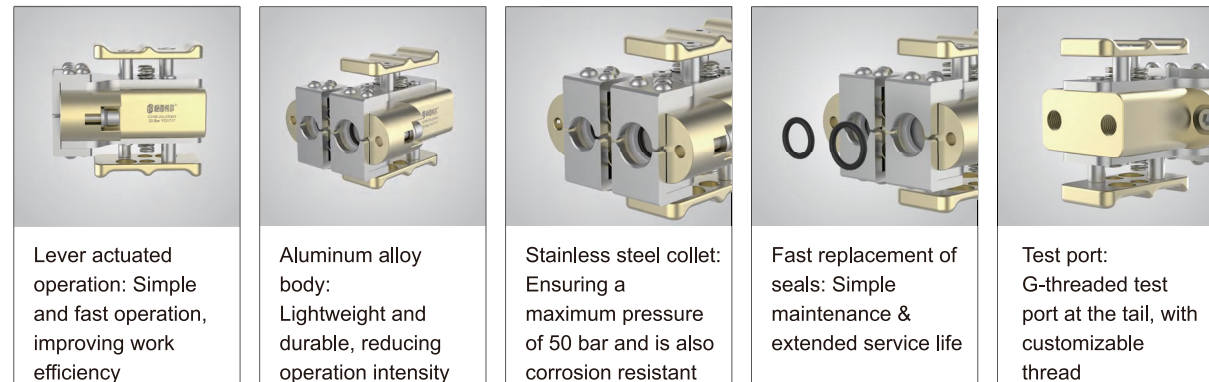
High pressure test | Surface seal | Pneumatic actuated | Full range of models | Simple operation | Diversified seal materials

# G72R Flange tube connectors

One-stop connection solution

High pressure test | Surface seal | Pneumatic actuated | Full range of models | Simple operation | Diversified seal materials

## Advantages of G72R quick connectors



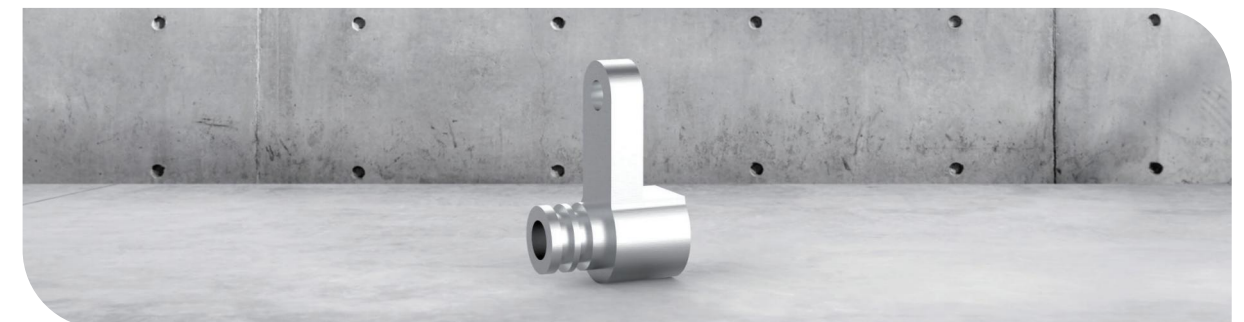
## Applications



Evaporator test

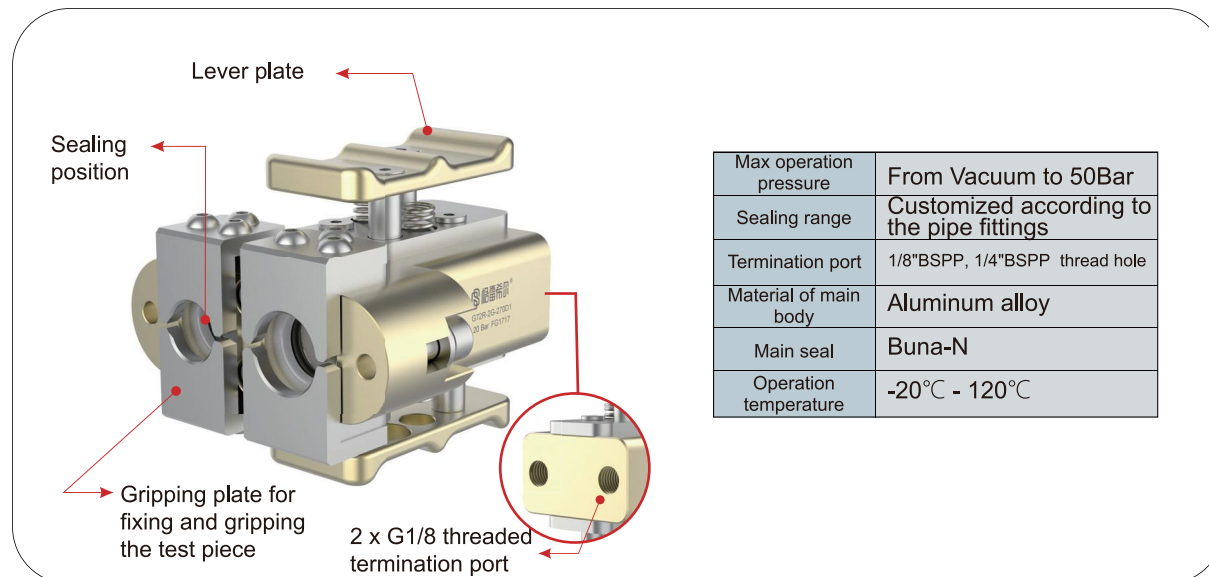


Air conditioner radiator test

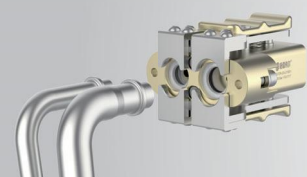


Special-shaped pipe opening connection test

## Specifications of G72R quick connectors



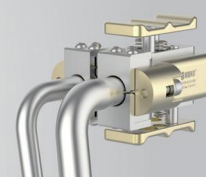
### How to use G72R



1. Squeeze the lever plates to open the collet, and place the test piece into test port at the front of G72R.



2. Connect the test piece.



3. Release the lever plates, and the collets automatically retract. After completing the connection, start the ventilation test.



# G72R

## Flange tube connectors

High pressure test | Surface seal | Pneumatic actuated | Full range of models | Simple operation | Diversified seal materials

One-stop connection solution

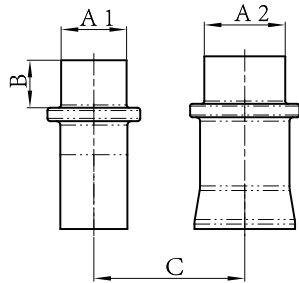
# G80

## Internal thread connectors

Instant | Convenient | Standard | High quality

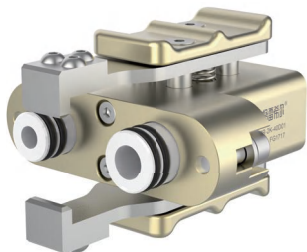
One-stop connection solution

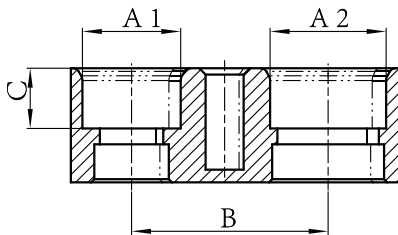




Dual-tube application

| Part Number   | Dim A1 | Dim A2 | Body Size | Dim B | Dim C | Termination Port D | Maximum Pressure | Collet Material | Seal Material | Main Seals Package                       |
|---------------|--------|--------|-----------|-------|-------|--------------------|------------------|-----------------|---------------|------------------------------------------|
| G72R-2G-270D1 | 11.7   | 14.5   | 1         | 27    | 8.5   | 1/8"BSPP           | 50 Bar           | Stainless Steel | Buna-N        | "SG72R-2G-270D1-01<br>SG72R-2G-270D1-02" |
| G72R-2G-290D1 | 11.7   | 14.5   | 1         | 29    | 8     |                    |                  |                 |               | "SG72R-2G-290D1-01<br>SG72R-2G-290D1-02" |

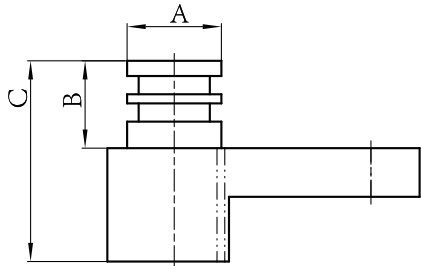




Dual-hole application

| Part Number   | Dim A1 | Dim A2 | Body Size | Dim B | Dim C | Termination Port D | Maximum Pressure | Collet Material | Seal Material | Main Seals Package                       |
|---------------|--------|--------|-----------|-------|-------|--------------------|------------------|-----------------|---------------|------------------------------------------|
| G72R-2K-310D1 | 15.5   | 18.3   | 1         | 31    | 9.5   | 1/8"BSPP           | 50 Bar           | Stainless Steel | Buna-N        | "SG72R-2K-310D1-01<br>SG72R-2K-310D1-02" |
| G72R-2K-350D1 | 15.5   | 18.3   | 1         | 35    | 9.5   |                    |                  |                 |               | "SG72R-2K-350D1-01<br>SG72R-2K-350D1-02" |
| G72R-2K-400D1 | 15.5   | 18.3   | 1         | 40    | 9.5   |                    |                  |                 |               | "SG72R-2K-400D1-01<br>SG72R-2K-400D1-02" |





Single-hole application

| Part Number   | Dim A1 | Body Size | Dim B | Dim C | Termination Port D | Maximum Pressure | Collet Material | Seal Material | Main Seals Package |
|---------------|--------|-----------|-------|-------|--------------------|------------------|-----------------|---------------|--------------------|
| G72R-1G-155D1 | 15.5   | 1         | 14.5  | 33    | 1/8"BSPP           | 50 Bar           | Stainless Steel | Buna-N        | SG72R-1G-155D1-01  |
| G72R-1G-183D1 | 18.3   | 1         | 14.5  | 33    |                    |                  |                 |               | SG72R-1G-183D1-01  |

G80 series connectors are designed for internal threads and are widely applied to block and connect various threaded holes, such as high pressure testing of automobile spare parts, Leak testing of new energy motor controller shells, etc. This series of connectors supports various actuation methods, suitable for a variety of manual and pneumatic applications.



### Internal threaded connection solution

- \* Easy-to-replace surface seals
- \* Lever actuated operation, easy to operate
- \* Diversified actuation methods for various scenarios
- \* Neck length customization to avoid space collisions

Features of G80 series quick connectors

1. Modular actuation part  
Three actuation methods are provided: pneumatic, button valve and lever, meeting the requirements of various applications.
2. O-ring  
The O-ring is simple, reliable, and easy to be replaced, and requires low maintenance cost. The O-ring materials can be selected to adapt to different applications.
3. SUS316 body  
SUS316 has excellent mechanical properties. It is durable and wear-resistant, and can significantly extend the service life of the connector.
4. Different neck lengths available  
Three neck lengths are available to meet the space requirements and prevent space collisions.
5. Standardized maintenance  
The internal structure is modularized, which enables integrated replacement and simple maintenance.

Body sizes



Lever actuated



Button actuated



Pneumatic actuated

Advantages of G80 quick connectors

Connect to female threaded bore, expandable locking thread collet, no damage to screw threads

Actuation modularity to meet customer requirements for manual and pneumatic operation

Customized neck length to avoid volume interference

Flow hole attached to the screw thread collet to enhance the flow rate and shorten

O-ring seal, simple to be replaced and easily maintained

Specifications of G80 quick connectors

|                        |                                        |
|------------------------|----------------------------------------|
| Max operation pressure | From Vacuum to 350 Bar                 |
| Sealing range          | See the specification sheet.           |
| Minimum threaded depth | See the specification sheet.           |
| Termination por        | 1/8"BSPP, 1/4"BSPP, 3/8"BSPP, 1/2"BSPP |
| Material of main body  | 316 stainless steel                    |
| Main seal              | Buna-N                                 |
| Internal seal          | Buna-N, fluoroelastomer                |
| Operation temperature  | -20°C - 120°C                          |

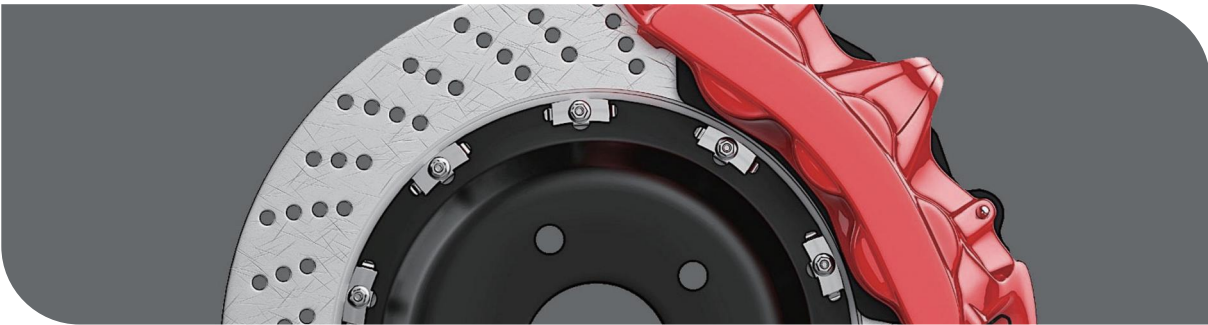
### How to use G80

Step 1: Press down the lever.

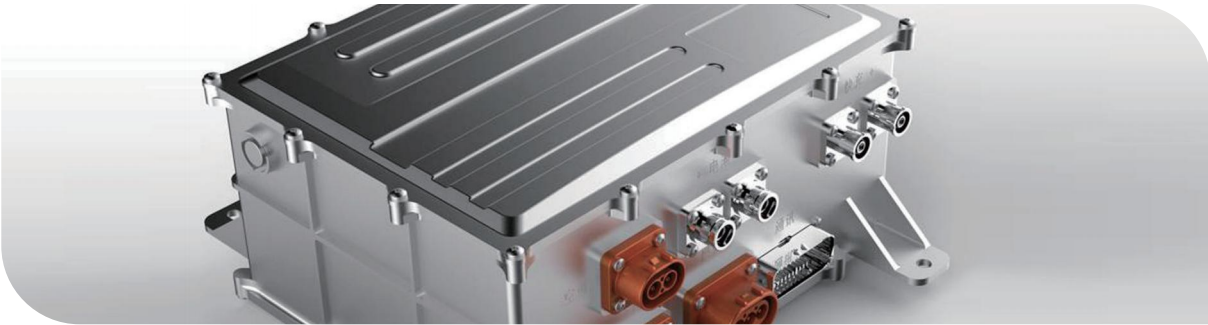
Step 2: Insert the test piece into the threaded hole.

Step 3: Release the lever to complete the connection.

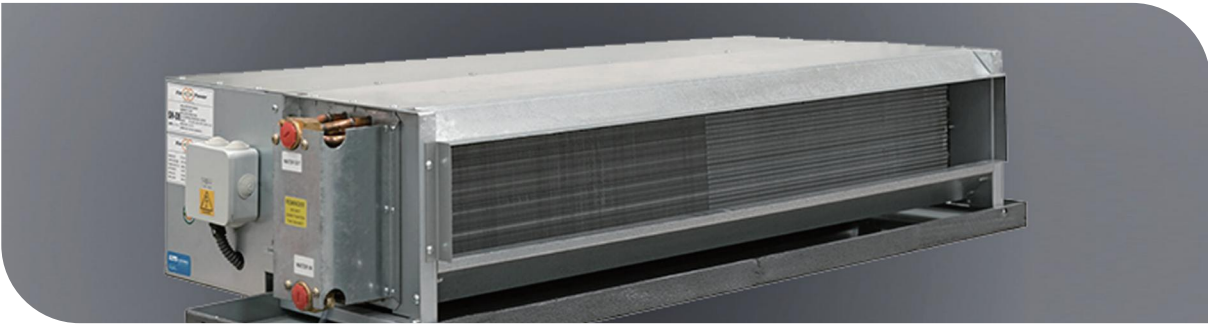
Applications



Brake caliper



Motor controller shell



HVAC industry

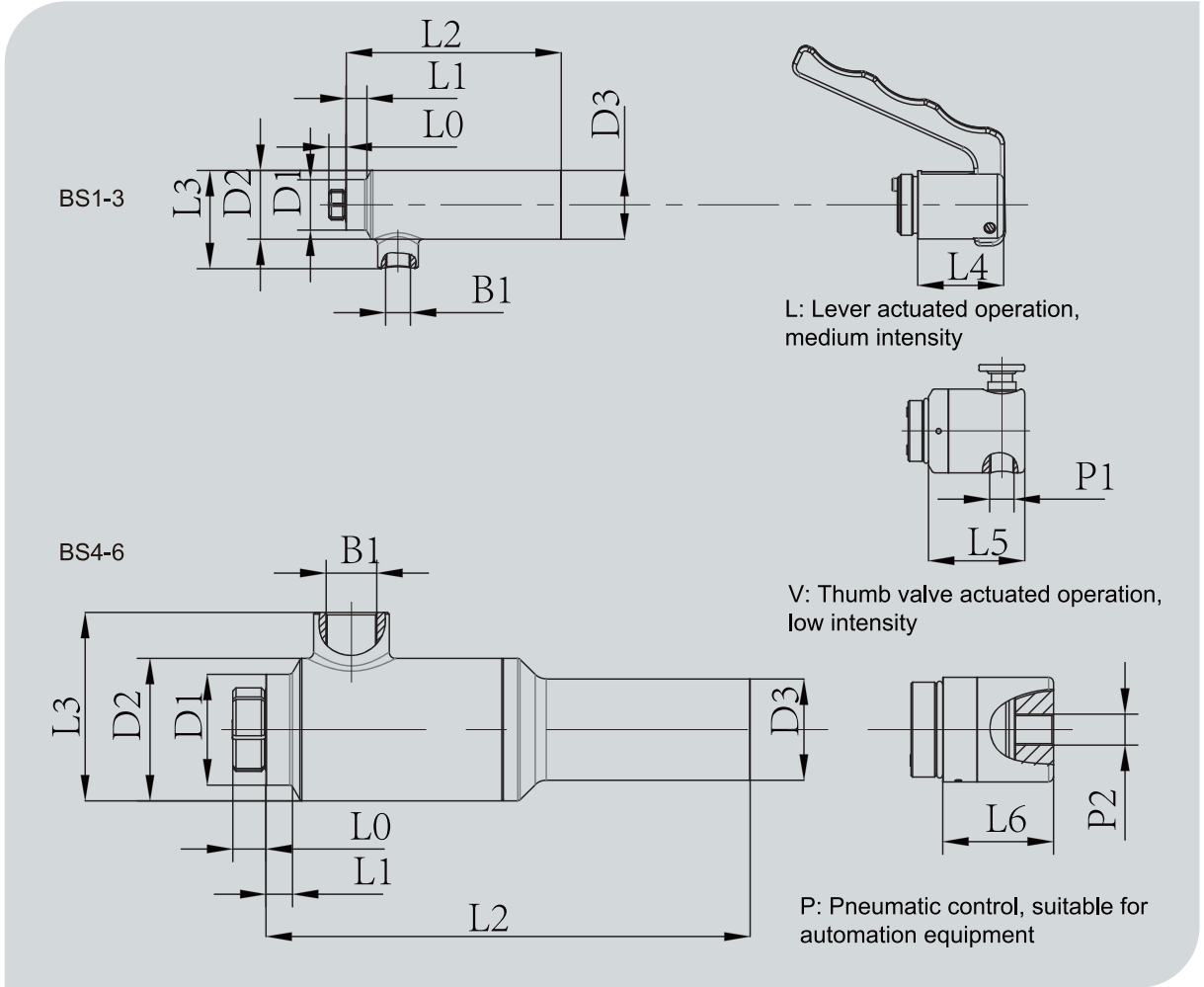


# G80 Internal thread connectors

One-stop connection solution

Instant | Convenient | Standard | High quality

Modularization of actuation methods: level-actuated G80L, pneumatic-actuated G80P, button-actuated G80V. These actuation methods are interchangeable to reduce the transformation cost and provide the customization service.



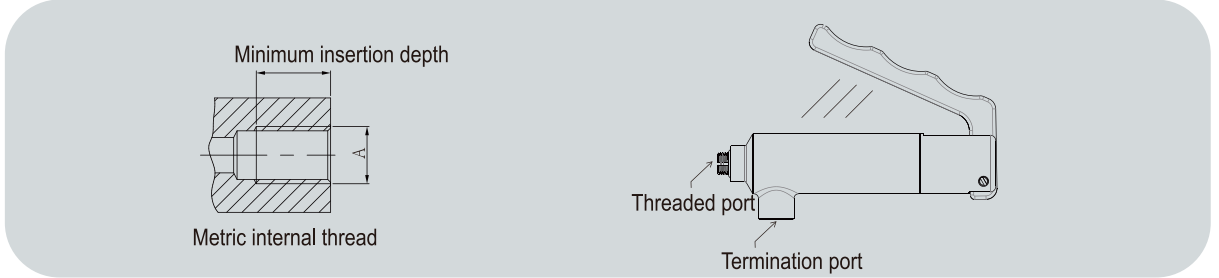
| Part Number | B1 (Media Port) | D1 | D2 | D3 | L0   | L1   | L2  | L3   | L4 | L5 | L6 |
|-------------|-----------------|----|----|----|------|------|-----|------|----|----|----|
| 1           | 1/8"BSPP        | 16 | 27 | 27 | 7    | 6.5  | 85  | 38.5 | 34 | 38 | 32 |
| 1A          | 1/8"BSPP        | 16 | 27 | 27 | 7    | 12.5 | 90  | 38.5 | 34 | 38 | 32 |
| 1B          | 1/8"BSPP        | 16 | 27 | 27 | 7    | 25.5 | 105 | 38.5 | 34 | 38 | 32 |
| 2           | 1/8"BSPP        | 20 | 27 | 27 | 7.5  | 6.5  | 85  | 38.5 | 34 | 38 | 32 |
| 2A          | 1/8"BSPP        | 20 | 27 | 27 | 7.5  | 12.5 | 90  | 38.5 | 34 | 38 | 32 |
| 2B          | 1/8"BSPP        | 20 | 27 | 27 | 7.5  | 25.5 | 110 | 38.5 | 34 | 38 | 32 |
| 3           | 1/4"BSPP        | 25 | 32 | 32 | 10   | 9.5  | 100 | 46   | 35 | 41 | 35 |
| 4           | 1/4"BSPP        | 30 | 38 | 32 | 11.5 | 8.5  | 123 | 54   | 35 | 41 | 35 |
| 5           | 3/8"BSPP        | 35 | 45 | 32 | 12   | 7.5  | 153 | 60   | 35 | 41 | 35 |
| 6           | 3/8"BSPP        | 40 | 50 | 32 | 12   | 7.5  | 153 | 67   | 35 | 41 | 35 |

Unit: mm

# G80 Internal thread connectors

One-stop connection solution

Instant | Convenient | Standard | High quality



G80 specification sheet for metric threads

| Part Number  | Internal Thread Diameter A | Body Size | Minimum Insertion Depth | Termination Port | Maximum Pressure | Material of main body | Seal Material | Main Seals Package |         |                     |        |         |          |         |                     |        |                     |        |         |
|--------------|----------------------------|-----------|-------------------------|------------------|------------------|-----------------------|---------------|--------------------|---------|---------------------|--------|---------|----------|---------|---------------------|--------|---------------------|--------|---------|
| G80L-M8C     | M8x1.0                     | 1         | 7                       | 1/8"BSPP         | 200 Bar          | 316 Stainless Steel   | Buna-N        | SG80M10            |         |                     |        |         |          |         |                     |        |                     |        |         |
| G80L-M8D     | M8x1.25                    | 1         |                         |                  |                  |                       |               |                    |         |                     |        |         |          |         |                     |        |                     |        |         |
| G80L-M10C    | M10 x 1.0                  | 1         |                         |                  |                  |                       |               |                    |         |                     |        |         |          |         |                     |        |                     |        |         |
| G80L-M10D    | M10 x 1.25                 | 1         |                         |                  |                  |                       |               |                    |         |                     |        |         |          |         |                     |        |                     |        |         |
| G80L-M10E    | M10 x 1.5                  | 1         |                         |                  |                  |                       |               |                    |         |                     |        |         |          |         |                     |        |                     |        |         |
| G80L-M10C-12 | M10 x 1.0                  | 1A*       |                         |                  |                  |                       |               |                    |         |                     |        |         |          |         |                     |        |                     |        |         |
| G80L-M10D-12 | M10 x 1.25                 | 1A        |                         |                  |                  |                       |               |                    |         |                     |        |         |          |         |                     |        |                     |        |         |
| G80L-M10E-12 | M10 x 1.5                  | 1A        |                         |                  |                  |                       |               |                    |         |                     |        |         |          |         |                     |        |                     |        |         |
| G80L-M10C-25 | M10 x 1.0                  | 1B*       |                         |                  |                  |                       |               |                    |         |                     |        |         |          |         |                     |        |                     |        |         |
| G80L-M10D-25 | M10 x 1.25                 | 1B        |                         |                  |                  |                       |               |                    |         |                     |        |         |          |         |                     |        |                     |        |         |
| G80L-M10E-25 | M10 x 1.5                  | 1B        |                         |                  |                  |                       |               |                    |         |                     |        |         |          |         |                     |        |                     |        |         |
| G80L-M12C    | M12 x 1.0                  | 2         | 7.5                     |                  |                  |                       |               | 1/4"BSPP           | 200 Bar | 316 Stainless Steel | Buna-N | SG80M12 |          |         |                     |        |                     |        |         |
| G80L-M12D    | M12 x 1.25                 | 2         |                         |                  |                  |                       |               |                    |         |                     |        |         |          |         |                     |        |                     |        |         |
| G80L-M12E    | M12 x 1.5                  | 2         |                         |                  |                  |                       |               |                    |         |                     |        |         |          |         |                     |        |                     |        |         |
| G80L-M12C-12 | M12 x 1.0                  | 2A*       |                         |                  |                  |                       |               |                    |         |                     |        |         |          |         |                     |        |                     |        |         |
| G80L-M12D-12 | M12 x 1.25                 | 2A        |                         |                  |                  |                       |               |                    |         |                     |        |         |          |         |                     |        |                     |        |         |
| G80L-M12E-12 | M12 x 1.5                  | 2A        |                         |                  |                  |                       |               |                    |         |                     |        |         |          |         |                     |        |                     |        |         |
| G80L-M12C-25 | M12 x 1.0                  | 2B*       |                         |                  |                  |                       |               |                    |         |                     |        |         |          |         |                     |        |                     |        |         |
| G80L-M12D-25 | M12 x 1.25                 | 2B        |                         |                  |                  |                       |               |                    |         |                     |        |         |          |         |                     |        |                     |        |         |
| G80L-M12E-25 | M12 x 1.5                  | 2B        |                         |                  |                  |                       |               |                    |         |                     |        |         |          |         |                     |        |                     |        |         |
| G80L-M14C    | M14x1.0                    | 2         |                         | 10               |                  |                       |               |                    |         |                     |        |         | 3/8"BSPP | 200 Bar | 316 Stainless Steel | Buna-N | SG80M14             |        |         |
| G80L-M14D    | M14x1.25                   | 2         |                         |                  |                  |                       |               |                    |         |                     |        |         |          |         |                     |        | SG80M14             |        |         |
| G80L-M14E    | M14x1.5                    | 2         | SG80M14                 |                  |                  |                       |               |                    |         |                     |        |         |          |         |                     |        |                     |        |         |
| G80L-M16B    | M16x0.8                    | 3         | SG80M16                 |                  |                  |                       |               |                    |         |                     |        |         |          |         |                     |        |                     |        |         |
| G80L-M16C    | M16x1.0                    | 3         | SG80M16                 |                  |                  |                       |               |                    |         |                     |        |         |          |         |                     |        |                     |        |         |
| G80L-M16E    | M16x1.5                    | 3         | SG80M16                 |                  |                  |                       |               |                    |         |                     |        |         |          |         |                     |        |                     |        |         |
| G80L-M18E    | M18x1.5                    | 3         | SG80M18                 |                  |                  |                       |               |                    |         |                     |        |         |          |         |                     |        |                     |        |         |
| G80L-M20E    | M20x1.5                    | 4         | 11.5                    | SG80M20          |                  |                       |               |                    |         |                     |        |         |          |         |                     |        |                     |        |         |
| G80L-M22E    | M22x1.5                    | 4         |                         | SG80M22          |                  |                       |               |                    |         |                     |        |         |          |         |                     |        |                     |        |         |
| G80L-M24E    | M24x1.5                    | 5         | 12                      | 3/8"BSPP         |                  |                       |               |                    |         |                     |        | 200 Bar |          |         |                     |        | 316 Stainless Steel | Buna-N | SG80M24 |
| G80L-M26E    | M26x1.5                    | 5         |                         |                  |                  |                       |               |                    |         |                     |        |         |          |         |                     |        |                     |        | SG80M26 |
| G80L-M27F    | M27x2.0                    | 5         |                         |                  |                  |                       |               | SG80M27            |         |                     |        |         |          |         |                     |        |                     |        |         |
| G80L-M28E    | M28x1.5                    | 6         | 12                      |                  |                  |                       |               | SG80M28            |         |                     |        |         |          |         |                     |        |                     |        |         |
| G80L-M30E    | M30x1.5                    | 6         |                         |                  |                  |                       |               | SG80M30            |         |                     |        |         |          |         |                     |        |                     |        |         |
| G80L-M33F    | M33x2.0                    | 6         |                         |                  |                  |                       |               | SG80M33            |         |                     |        |         |          |         |                     |        |                     |        |         |

- Other thread specifications can be customized, and the max size is 2 inches.
- For the 1A and 2A body sizes, the neck length is 12.5mm.
- For the 1B and 2B body sizes, the neck length is 25.5mm, which is applicable to some applications with location restrictions.

# G80 Internal thread connectors

One-stop connection solution

Instant | Convenient | Standard | High quality

## G80 thread specification sheet

| Part Number | Internal Thread Diameter A | Body Size | Minimum Insertion Depth | Termination Port | Maximum Pressure | Material of main body | Seal Material | Main Seals Package |  |  |  |
|-------------|----------------------------|-----------|-------------------------|------------------|------------------|-----------------------|---------------|--------------------|--|--|--|
| G80L-G01    | 1/8"BSPP                   | 1         | 7                       | 1/8"BSPP         | 200 Bar          | 316 Stainless Steel   | Buna-N        | SG8001             |  |  |  |
| G80L-G02    | 1/4"BSPP                   | 2         | 7.5                     |                  |                  |                       |               | SG8002             |  |  |  |
| G80L-G03    | 3/8"BSPP                   | 3         | 10                      | 1/4"BSPP         |                  |                       |               | SG8003             |  |  |  |
| G80L-G04    | 1/2"BSPP                   | 4         | 11.5                    |                  |                  |                       |               | SG8004             |  |  |  |
| G80L-G06    | 3/4"BSPP                   | 5         | 12                      | 3/8"BSPP         |                  |                       |               | SG8006             |  |  |  |
| G80L-G08    | 1"BSPP                     | 6         | 12                      |                  |                  |                       |               | SG8008             |  |  |  |

## G80 specification sheet for BSPT threads

| Part Number | Internal Thread Diameter A | Body Size | Minimum Insertion Depth | Termination Port | Maximum Pressure | Material of main body | Seal Material | Main Seals Package |
|-------------|----------------------------|-----------|-------------------------|------------------|------------------|-----------------------|---------------|--------------------|
| G80L-R01    | 1/8"BSPT                   | 1         | 7                       | 1/8"BSPP         | 200 Bar          | 316 Stainless Steel   | Buna-N        | SG8001             |
| G80L-R02    | 1/4"BSPT                   | 2         | 7.5                     |                  |                  |                       |               | SG8002             |
| G80L-R03    | 3/8"BSPT                   | 3         | 10                      | 1/4"BSPP         |                  |                       |               | SG8003             |
| G80L-R04    | 1/2"BSPT                   | 4         | 11.5                    |                  |                  |                       |               | SG8004             |
| G80L-R06    | 3/4"BSPT                   | 5         | 12                      | 3/8"BSPP         |                  |                       |               | SG8006             |
| G80L-R08    | 1"BSPT                     | 6         | 12                      |                  |                  |                       |               | SG8008             |

## G80 specification sheet for NPT threads

| Part Number | Internal Thread Diameter A | Body Size | Minimum Insertion Depth | Termination Port | Maximum Pressure | Material of main body | Seal Material | Main Seals Package |
|-------------|----------------------------|-----------|-------------------------|------------------|------------------|-----------------------|---------------|--------------------|
| G80L-N01    | 1/8"NPT                    | 1         | 7                       | 1/8"BSPP         | 200 Bar          | 316 Stainless Steel   | Buna-N        | SG8001             |
| G80L-N02    | 1/4"NPT                    | 2         | 7.5                     |                  |                  |                       |               | SG8002             |
| G80L-N03    | 3/8"NPT                    | 3         | 10                      | 1/4"BSPP         |                  |                       |               | SG8003             |
| G80L-N04    | 1/2"NPT                    | 4         | 11.5                    |                  |                  |                       |               | SG8004             |
| G80L-N06    | 3/4"NPT                    | 5         | 12                      | 3/8"BSPP         |                  |                       |               | SG8006             |
| G80L-N08    | 1"NPT                      | 6         | 12                      |                  |                  |                       |               | SG8008             |

## G80 specification sheet for UNF threads

| Part Number | Internal Thread Diameter A | Body Size | Minimum Insertion Depth | Termination Port | Maximum Pressure | Material of main body | Seal Material | Main Seals Package |
|-------------|----------------------------|-----------|-------------------------|------------------|------------------|-----------------------|---------------|--------------------|
| G80L-U02    | UNF5/16-24                 | 1         | 7                       | 1/8"BSPP         | 200 Bar          | 316 Stainless Steel   | Buna-N        | SG80UN02           |
| G80L-U03    | UNF3/8-24                  | 1         | 7                       |                  |                  |                       |               | SG80UN03           |
| G80L-U04    | UNF7/16-20                 | 2         | 7.5                     |                  |                  |                       |               | SG80UN04           |
| G80L-U05    | UNF1/2-20                  | 2         | 7.5                     |                  |                  |                       |               | SG80UN05           |
| G80L-U06    | UNF9/16-18                 | 2         | 7.5                     |                  |                  |                       |               | SG80UN06           |
| G80L-U08    | UNF3/4-16                  | 4         | 11.5                    | 1/4"BSPP         |                  |                       |               | SG80UN08           |
| G80L-U10    | UNF 7/8-14                 | 4         | 11.5                    |                  |                  |                       |               | SG80UN10           |
| G80L-U12    | UNF 1-1/16-12              | 5         | 12                      | 3/8"BSPP         |                  |                       |               | SG80UN12           |
| G80L-U14    | UNF1-3/16-12               | 6         | 12                      |                  |                  |                       |               | SG80UN14           |
| G80L-U16    | UNF 1-5/16-12              | 6         | 12                      |                  |                  |                       |               | SG80UN16           |

Note: The letter after "G80" indicates the actuation method of the connector:

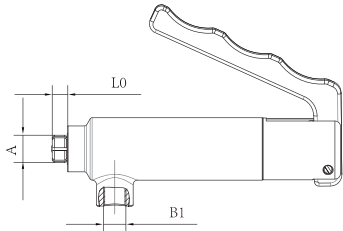
G80L indicates lever actuated operation, G80V indicates button actuated operation, and G80P indicates pneumatic actuated operation.

Both G80V and G80P must be connected to a pneumatic pipe with a pilot pressure of 4-6 bar.

# G80 Internal thread connectors

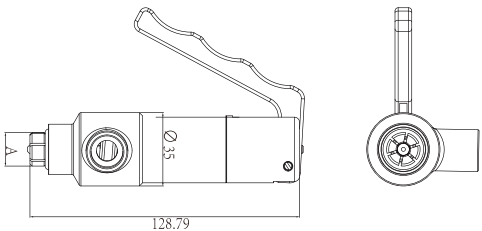
One-stop connection solution

Instant | Convenient | Standard | High quality



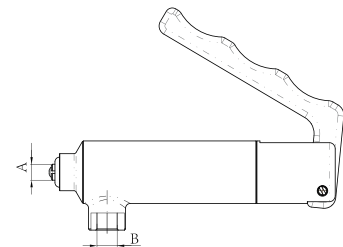
## G80H high pressure version (For hydraulic application)

| Part Number   | Dim A    | Body Size | Minimum Insertion Depth | Termination Port | Maximum Pressure | Material of main body | Seal Material | Main Seals Package |
|---------------|----------|-----------|-------------------------|------------------|------------------|-----------------------|---------------|--------------------|
| G80HL-G01     | 1/8"BSPP | 1         | 12                      | 1/8"BSPP         | 350 Bar          | 316 Stainless Steel   | Buna-N        | SG80G01            |
| G80HL-G01-12  | 1/8"BSPP | 1A        | 12                      | 1/8"BSPP         |                  |                       |               | SG80G01            |
| G80HL-G02     | 1/4"BSPP | 2         | 7.5                     | 1/8"BSPP         |                  |                       |               | SG80G02            |
| G80HL-G02-12  | 1/4"BSPP | 2A        | 13                      | 1/8"BSPP         |                  |                       |               | SG80G02            |
| G80HL-G03     | 3/8"BSPP | 3         | 8                       | 1/4"BSPP         |                  |                       |               | SG80G03            |
| G80HL-M10C    | M10x1.0  | 1         | 12                      | 1/8"BSPP         |                  |                       |               | SG80M10            |
| G80HL-M10C-12 | M10x1.0  | 1A        | 12                      | 1/8"BSPP         |                  |                       |               | SG80M10            |
| G80HL-M14E    | M14x1.5  | 2         | 7.5                     | 1/8"BSPP         |                  |                       |               | SG80M14            |
| G80HL-M16E    | M16x1.5  | 3         | 10                      | 1/4"BSPP         |                  |                       |               | SG80M16            |
| G80HL-M18E    | M18x1.5  | 3         | 10                      | 1/4"BSPP         |                  |                       |               | SG80M18            |
| G80HL-M20E    | M20x1.5  | 4         | 11.5                    | 1/4"BSPP         |                  |                       |               | SG80M20            |
| G80HL-M22E    | M22x1.5  | 4         | 11.5                    | 1/4"BSPP         |                  |                       |               | SG80M22            |
| G80HL-M27F    | M27x2.0  | 5         | 12                      | 3/8"BSPP         |                  |                       |               | SG80M27            |



## G80S low pressure specification (Short version)

| Part Number | Dim A   | Body Size | Minimum Insertion Depth | Termination Port | Maximum Pressure | Material of main body | Seal Material | Main Seals Package |
|-------------|---------|-----------|-------------------------|------------------|------------------|-----------------------|---------------|--------------------|
| G80L-M16ES  | M16*1.5 | 3S        | 10                      | 3/8"BSPP         | 50 Bar           | 316 Stainless Steel   | Buna-N        | SG80M16            |
| G80L-M18ES  | M18*1.5 | 3S        | 10                      | 3/8"BSPP         |                  |                       |               | SG80M18            |
| G80L-G03S   | G3/8"   | 3S        | 10                      | 3/8"BSPP         |                  |                       |               | SG80G03            |
| G80L-R03S   | R3/8"   | 3S        | 10                      | 3/8"BSPP         |                  |                       |               | SG80R03            |



## G80L - T thin-walled hole connector

| Part Number    | Dim A | Body Size | Thin-Walled Plate Thickness | Termination Port | Maximum Pressure | Material of main body | Main Seals Package |
|----------------|-------|-----------|-----------------------------|------------------|------------------|-----------------------|--------------------|
| G80L-T065      | 6.5   | 1         | 0.5-4                       | 1/8"BSPP         | 10Bar            | Stainless Steel       | SG80T065           |
| G80L-T065-H040 | 6.5   | 1         | 0.5-4                       | 1/8"BSPP         |                  |                       | SG80T065           |
| G80L-T090      | 9     | 1         | 0.5-4                       | 1/8"BSPP         |                  |                       | SG80T090           |
| G80L-T10-12    | 10    | 1A        | 0.5-4                       | 1/8"BSPP         |                  |                       | SG80T10            |
| G80L-T105-12   | 10.5  | 1A        | 0.5-4                       | 1/8"BSPP         |                  |                       | SG80T105           |

1. For the 1A and 2A body sizes, the neck length is extended to 12.5mm.

2. For the 1B and 2B body sizes, the neck length is extended to 25.5mm.



# G80N

## Miniature internal thread connectors

One-stop connection solution

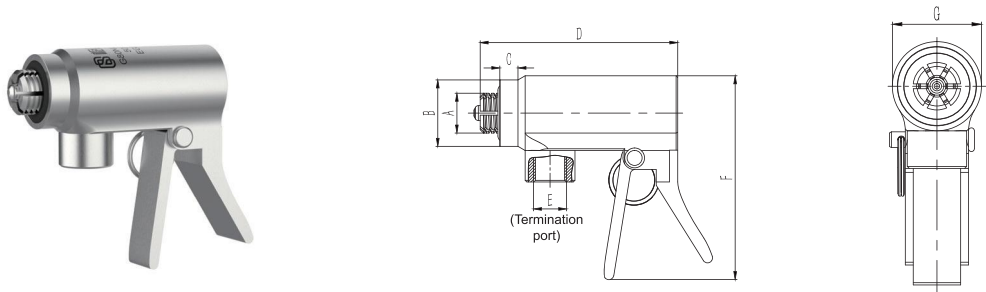
Instant | Convenient | Standard | High quality | Compact size

# G80N

## Miniature internal thread connectors

One-stop connection solution

Instant | Convenient | Standard | High quality | Compact size



### G80NL miniature low pressure version – Metric thread (M thread)

| Part Number   | Dim A    | Body Size | Minimum Insertion Depth | Dim B | Dim C | Dim D | Dim E    | Dim F | Dim G | Maximum Pressure | Material of main body | Main Seals Package |
|---------------|----------|-----------|-------------------------|-------|-------|-------|----------|-------|-------|------------------|-----------------------|--------------------|
| G80NL-M10C    | M10X1.0  | 1NL       | 7                       | 16    | 6     | 58.5  | 1/8"BSPP | 58    | 18.2  | 50Bar            | Stainless Steel       | SG80NLM10          |
| G80NL-M10D    | M10X1.25 | 1NL       | 7                       | 16    | 6     | 58.5  | 1/8"BSPP | 58    | 18.2  |                  |                       |                    |
| G80NL-M10E    | M10X1.5  | 1NL       | 7                       | 16    | 6     | 58.5  | 1/8"BSPP | 58    | 18.2  |                  |                       |                    |
| G80NL-M10C-12 | M10X1.0  | 1NLA      | 6                       | 16    | 18.5  | 71    | 1/8"BSPP | 58    | 18.2  |                  |                       |                    |
| G80NL-M10D-12 | M10X1.25 | 1NLA      | 6                       | 16    | 18.5  | 71    | 1/8"BSPP | 58    | 18.2  |                  |                       |                    |
| G80NL-M10E-12 | M10X1.5  | 1NLA      | 6                       | 16    | 18.5  | 71    | 1/8"BSPP | 58    | 18.2  |                  |                       |                    |
| G80NL-M10C-25 | M10X1.0  | 1NLB      | 6                       | 16    | 31.5  | 84    | 1/8"BSPP | 58    | 18.2  |                  |                       |                    |
| G80NL-M10D-25 | M10X1.25 | 1NLB      | 6                       | 16    | 31.5  | 84    | 1/8"BSPP | 58    | 18.2  |                  |                       |                    |
| G80NL-M10E-25 | M10X1.5  | 1NLB      | 6                       | 16    | 31.5  | 84    | 1/8"BSPP | 58    | 18.2  |                  |                       |                    |
| G80NL-M12C    | M12X1.0  | 2NL       | 8                       | 20    | 6     | 60.5  | 1/8"BSPP | 60    | 22.5  |                  |                       | SG80NLM12          |
| G80NL-M12D    | M12X1.25 | 2NL       | 8                       | 20    | 6     | 60.5  | 1/8"BSPP | 60    | 22.5  |                  |                       |                    |
| G80NL-M12E    | M12X1.5  | 2NL       | 8                       | 20    | 6     | 60.5  | 1/8"BSPP | 60    | 22.5  |                  |                       |                    |
| G80NL-M12C-12 | M12X1.0  | 2NLA      | 8                       | 20    | 18.5  | 73    | 1/8"BSPP | 60    | 22.5  |                  |                       |                    |
| G80NL-M12D-12 | M12X1.25 | 2NLA      | 8                       | 20    | 18.5  | 73    | 1/8"BSPP | 60    | 22.5  |                  |                       |                    |
| G80NL-M12E-12 | M12X1.5  | 2NLA      | 8                       | 20    | 18.5  | 73    | 1/8"BSPP | 60    | 22.5  |                  |                       |                    |
| G80NL-M12C-25 | M12X1.0  | 2NLB      | 8                       | 20    | 31.5  | 86    | 1/8"BSPP | 60    | 22.5  |                  |                       |                    |
| G80NL-M12D-25 | M12X1.25 | 2NLB      | 8                       | 20    | 31.5  | 86    | 1/8"BSPP | 60    | 22.5  |                  |                       |                    |
| G80NL-M12E-25 | M12X1.5  | 2NLB      | 8                       | 20    | 31.5  | 86    | 1/8"BSPP | 60    | 22.5  |                  |                       |                    |
| G80NL-M14E    | M14X1.5  | 2NL       | 8                       | 20    | 6     | 60.5  | 1/8"BSPP | 60    | 22.5  |                  |                       | SG80NLM14          |
| G80NL-M16E    | M16X1.5  | 3NL       | 8                       | 24    | 6     | 65    | 1/8"BSPP | 65    | 27    |                  |                       | SG80NLM16          |
| G80NL-M18E    | M18X1.5  | 3NL       | 8                       | 24    | 6     | 65    | 1/8"BSPP | 65    | 27    |                  |                       | SG80NLM18          |
| G80NL-M20E    | M20X1.5  | 4NL       | 11.5                    | 29    | 6.2   | 70.4  | 1/8"BSPP | 71.9  | 32    |                  |                       | SG80NLM20          |
| G80NL-M22E    | M22X1.5  | 4NL       | 11.5                    | 29    | 6.2   | 70.4  | 1/8"BSPP | 71.9  | 32    |                  |                       | SG80NLM22          |
| G80NL-M24E    | M24X1.5  | 5NL       | 12                      | 33.7  | 7.5   | 80.2  | 3/8"BSPP | 114.9 | 40.7  |                  |                       | SG80NLM24          |
| G80NL-M24F    | M24X2.0  | 5NL       | 12                      | 33.7  | 7.5   | 80.2  | 3/8"BSPP | 114.9 | 40.7  |                  |                       | SG80NLM24          |
| G80NL-M26E    | M26X1.5  | 5NL       | 12                      | 33.7  | 7.5   | 80.2  | 3/8"BSPP | 114.9 | 40.7  |                  |                       | SG80NLM26          |
| G80NL-M27F    | M27X2.0  | 5NL       | 12                      | 33.7  | 7.5   | 80.2  | 3/8"BSPP | 114.9 | 40.7  |                  |                       | SG80NLM27          |

### G80NL miniature low pressure version – thread (G thread)

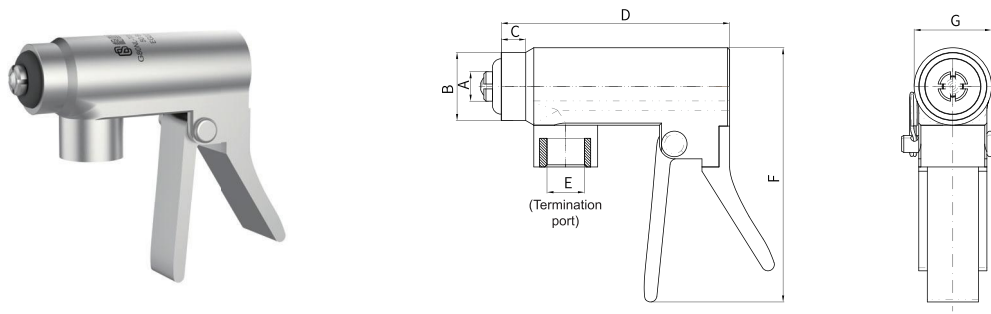
| Part Number | Dim A    | Body Size | Minimum Insertion Depth | Dim B | Dim C | Dim D | Dim E    | Dim F | Dim G | Maximum Pressure | Material of main body | Main Seals Package |
|-------------|----------|-----------|-------------------------|-------|-------|-------|----------|-------|-------|------------------|-----------------------|--------------------|
| G80NL-G01   | 1/8"BSPP | 1NL       | 7                       | 16    | 6     | 58.5  | 1/8"BSPP | 58    | 18.2  | 50Bar            | Stainless Steel       | SG80NL001          |
| G80NL-G02   | 1/4"BSPP | 2NL       | 8                       | 20    | 6     | 60.5  | 1/8"BSPP | 60    | 22.5  |                  |                       | SG80NL002          |
| G80NL-G03   | 3/8"BSPP | 3NL       | 8                       | 24    | 6     | 65    | 1/8"BSPP | 65    | 27    |                  |                       | SG80NL003          |
| G80NL-G04   | 1/2"BSPP | 4NL       | 11.5                    | 29    | 6.2   | 70.4  | 1/8"BSPP | 71.9  | 32    |                  |                       | SG80NL004          |
| G80NL-G06   | 3/4"BSPP | 5NL       | 12                      | 33.7  | 7.5   | 80.2  | 3/8"BSPP | 114.9 | 40.7  |                  |                       | SG80NL006          |

### G80NL miniature low pressure version – BSPT thread

| Part Number | Dim A    | Body Size | Minimum Insertion Depth | Dim B | Dim C | Dim D | Dim E    | Dim F | Dim G | Maximum Pressure | Material of main body | Main Seals Package |
|-------------|----------|-----------|-------------------------|-------|-------|-------|----------|-------|-------|------------------|-----------------------|--------------------|
| G80NL-R01   | 1/8"BSPT | 1NL       | 7                       | 16    | 6     | 58.5  | 1/8"BSPP | 58    | 18.2  | 50Bar            | Stainless Steel       | SG80NL001          |
| G80NL-R02   | 1/4"BSPT | 2NL       | 8                       | 20    | 6     | 60.5  | 1/8"BSPP | 60    | 22.5  |                  |                       | SG80NL002          |
| G80NL-R03   | 3/8"BSPT | 3NL       | 8                       | 24    | 6     | 65    | 1/8"BSPP | 65    | 27    |                  |                       | SG80NL003          |
| G80NL-R04   | 1/2"BSPT | 4NL       | 11.5                    | 29    | 6.2   | 70.4  | 1/8"BSPP | 71.9  | 32    |                  |                       | SG80NL004          |
| G80NL-R06   | 3/4"BSPT | 5NL       | 12                      | 33.7  | 7.5   | 80.2  | 3/8"BSPP | 114.9 | 40.7  |                  |                       | SG80NL006          |

### G80NL miniature low pressure version – NPT thread

| Part Number | Dim A   | Body Size | Minimum Insertion Depth | Dim B | Dim C | Dim D | Dim E    | Dim F | Dim G | Maximum Pressure | Material of main body | Main Seals Package |
|-------------|---------|-----------|-------------------------|-------|-------|-------|----------|-------|-------|------------------|-----------------------|--------------------|
| G80NL-N01   | 1/8"NPT | 1NL       | 7                       | 16    | 6     | 58.5  | 1/8"BSPP | 58    | 18.2  | 50Bar            | Stainless Steel       | SG80NL001          |
| G80NL-N02   | 1/4"NPT | 2NL       | 8                       | 20    | 6     | 60.5  | 1/8"BSPP | 60    | 22.5  |                  |                       | SG80NL002          |
| G80NL-N03   | 3/8"NPT | 3NL       | 8                       | 24    | 6     | 65    | 1/8"BSPP | 65    | 27    |                  |                       | SG80NL003          |
| G80NL-N04   | 1/2"NPT | 4NL       | 11.5                    | 29    | 6.2   | 70.4  | 1/8"BSPP | 71.9  | 32    |                  |                       | SG80NL004          |
| G80NL-N06   | 3/4"NPT | 5NL       | 12                      | 33.7  | 7.5   | 80.2  | 3/8"BSPP | 114.9 | 40.7  |                  |                       | SG80NL006          |



### G80L - T thin-walled hole connector (Miniature version)

| Part Number     | Dim A | Body Size | Thin-Walled Plate Thickness | Dim B | Dim C | Dim D | Dim E    | Dim F | Dim G | Maximum Pressure | Material of main body | Main Seals Package |
|-----------------|-------|-----------|-----------------------------|-------|-------|-------|----------|-------|-------|------------------|-----------------------|--------------------|
| G80NL-T065      | 6.5   | 1NL       | 0.5-4                       | 16    | 6     | 58.5  | 1/8"BSPP | 58    | 18.2  | 50Bar            | Stainless Steel       | SG80T065           |
| G80NL-T065-H040 | 6.5   | 1NL       | 0.5-4                       | 16    | 6     | 58.5  | 1/8"BSPP | 58    | 18.2  |                  |                       | SG80T065           |
| G80NL-T090      | 9     | 1NL       | 0.5-4                       | 16    | 6     | 58.5  | 1/8"BSPP | 58    | 18.2  |                  |                       | SG80T090           |
| G80NL-T10-12    | 10    | 1NLA      | 0.5-4                       | 16    | 18.5  | 71    | 1/8"BSPP | 58    | 18.2  |                  |                       | SG80T10            |
| G80NL-T105-12   | 10.5  | 1NLA      | 0.5-4                       | 16    | 18.5  | 71    | 1/8"BSPP | 58    | 18.2  |                  |                       | SG80T105           |

1. For the 1NLA and 2NLA body sizes, the neck length is extended to 12.5mm.

2. For the 1NLB and 2NLB body sizes, the neck length is extended to 25.5mm.

# G85 External thread connectors

One-stop connection solution

Instant | Convenient | Standard | High quality

G85 series are external thread quick connectors, which are widely used to block or connect various external threaded ports, such as water heaters, instruments and meters, etc. This series of connectors supports various actuation methods, suitable for a variety of manual and pneumatic applications.

## External threaded connection solution



- \* Easy-to-replace surface seals
- \* Lever actuated operation, reducing operation intensity
- \* Diversified actuation methods for various scenarios
- \* Stainless steel, durable and reliable

## Features of G85 series quick connectors

### 1. Modular actuation part

Three actuation methods are provided: pneumatic, button valve and lever, meeting the requirements of various applications.

### 2. Surface sealing

The seal is simple, reliable, and easy to be replaced, and requires low maintenance cost. The O-ring materials can be selected to adapt to different applications.

### 3. SUS316 body

SUS316 has excellent mechanical properties. It is durable and wear-resistant, and can significantly extend the service life of the connector.

### 4. Maximum pressure of 350 bar

The connector is suitable for various high-pressure testing applications, such as pressure sensors, hydraulic valves, etc.

### 5. High flow

The internal flow aperture is large, which can greatly reduce flow loss.

Body sizes



# G85 External thread connectors

One-stop connection solution

Instant | Convenient | Standard | High quality

## Advantages of G85 quick connectors



Collets: Retracting to lock the test piece, minimizing damage to the thread and improving connection efficiency



SUS316: Excellent mechanical properties and high test pressure



Multiple actuation methods: Meeting diversified operation requirements



Large internal flow aperture: Minimizing impact on the running test



Easy-to-replace surface seals: Simple to replace and maintain

## Specifications of G85 quick connectors



|                        |                              |
|------------------------|------------------------------|
| Max operation pressure | From Vacuum to 350 Bar       |
| Sealing range          | See the specification sheet. |
| External thread height | See the specification sheet. |
| Termination port       | 1/8"BSPP, 1/4"BSPP, 3/8"BSPP |
| Material of main body  | 316 stainless steel          |
| Main seal              | Buna-N                       |
| Internal seal          | Buna-N                       |
| Operation temperature  | -20°C - 120°C                |

## How to use G85



Step 1: Press down the lever.



Step 2: Insert the test piece into the connector.



Step 3: Release the lever to complete the connection.



# G85

External thread connectors

Instant | Convenient | Standard | High quality

One-stop connection solution

# G85

External thread connectors

Instant | Convenient | Standard | High quality

One-stop connection solution

Applications



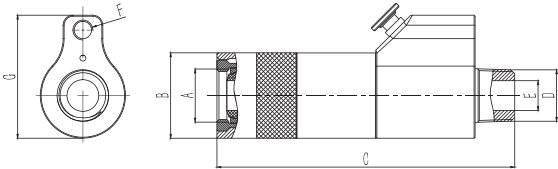
Gas stove



Wall-mounted water heater

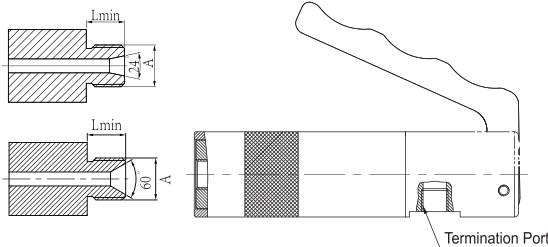


Toilet



Specification sheet (water heater dedicated)

| Part Number | Body Size | Dim A    | Dim B | DimC | DimD                                | DimE | DimF     | DimG | Maximum Pressure | Material of main body            | Seals Package | Main Seals Package |
|-------------|-----------|----------|-------|------|-------------------------------------|------|----------|------|------------------|----------------------------------|---------------|--------------------|
| G85V-085    | 85V1      | 1/2"BSPP | 38    | 150  | 1/2"BSPT external thread - Straight | 12   | 1/8"BSPP | 55   | 20 Bar           | Aluminum alloy + Stainless Steel | Neoprene      | SG85085            |
| G85V-085HF  | 85HFV1    | 1/2"BSPP | 38    | 135  | 3/8"BSPP internal thread - Side     | 12   | 1/8"BSPP | 38   |                  |                                  |               |                    |
| G85L-085    | 85L1      | 1/2"BSPP | 38    | 125  | 3/8"BSPP internal thread - Side     | 12   | //       | 38   |                  |                                  |               |                    |
| G85V-125    | 85V2      | 3/4"BSPP | 43    | 150  | 3/4"BSPT external thread - Straight | 15   | 1/8"BSPP | 62   |                  |                                  |               | SG85125            |
| G85V-125HF  | 85HFV2    | 3/4"BSPP | 43    | 140  | 1/2"BSPP internal thread - Side     | 15   | 1/8"BSPP | 43   |                  |                                  |               |                    |
| G85L-125    | 85L1      | 1/2"BSPP | 43    | 125  | 1/2"BSPP internal thread - Side     | 15   | //       | 43   |                  |                                  |               |                    |



G85 specification sheet for external threads (inner tapered surface external thread)

| Part Number    | Dim A     |   | External Thread Height L | Termination Port | Maximum Pressure | Material of main body | Seals Package | Main Seals Package |
|----------------|-----------|---|--------------------------|------------------|------------------|-----------------------|---------------|--------------------|
| G85L-M12E-A601 | M12 X 1.5 | 1 | 9                        | 1/8"BSPP         | 350 Bar          | 316 Stainless Steel   | Buna-N        | SG85M12A601        |
| G85L-M14E-A601 | M14 X 1.5 |   |                          |                  |                  |                       |               | SG85M14A601        |
| G85L-M16E-A601 | M16 X 1.5 |   |                          |                  |                  |                       |               | SG85M16A601        |
| G85L-G02-A601  | 1/4"BSPP  |   |                          |                  |                  |                       |               | SG85G02A601        |
| G85L-G03-A601  | 3/8"BSPP  |   |                          |                  |                  |                       |               | SG85G03A601        |
| G85L-M12E-A241 | M12x1.5   |   |                          |                  |                  |                       |               | SG85M12A241        |
| G85L-M14E-A241 | M14x1.5   |   |                          |                  |                  |                       |               | SG85M14A241        |
| G85L-M16E-A241 | M16x1.5   |   |                          |                  |                  |                       |               | SG85M16A241        |
| G85L-M10E-A901 | M10x1.5   |   |                          |                  |                  |                       |               | SG85M10A901        |
| G85L-M12E-A901 | M12x1.5   |   |                          |                  |                  |                       |               | SG85M12A901        |
| G85L-M14E-A901 | M14x1.5   |   |                          |                  |                  |                       |               | SG85M14A901        |

G85 specification sheet for metric threads

| Part Number | Internal Thread Diameter A | Body Size | External Thread Height L | Termination Port | Maximum Pressure | Material of main body | Seals Package | Main Seals Package |         |                     |        |         |
|-------------|----------------------------|-----------|--------------------------|------------------|------------------|-----------------------|---------------|--------------------|---------|---------------------|--------|---------|
| G85L-M10C   | M10 x 1.0                  | 1         | 8                        | 1/8"BSPP         | 200 Bar          | 316 Stainless Steel   | Buna-N        | SG85M10            |         |                     |        |         |
| G85L-M10D   | M10 x 1.25                 | 1         |                          |                  |                  |                       |               |                    |         |                     |        |         |
| G85L-M10E   | M10 x 1.5                  | 1         |                          |                  |                  |                       |               |                    |         |                     |        |         |
| G85L-M12C   | M12 x 1.0                  | 1         | 8                        |                  |                  |                       |               | 1/8"BSPP           | 200 Bar | 316 Stainless Steel | Buna-N | SG85M12 |
| G85L-M12D   | M12 x 1.25                 | 1         |                          |                  |                  |                       |               |                    |         |                     |        |         |
| G85L-M12E   | M12 x 1.50                 | 1         |                          |                  |                  |                       |               |                    |         |                     |        |         |
| G85L-M14E   | M14x1.5                    | 1         | 10                       | 1/4"BSPP         | 200 Bar          | 316 Stainless Steel   | Buna-N        |                    |         |                     |        | SG85M14 |
| G85L-M16E   | M16x1.5                    | 1         |                          |                  |                  |                       |               |                    |         |                     |        | SG85M16 |
| G85L-M18E   | M18x1.5                    | 2         |                          |                  |                  |                       |               |                    |         |                     |        | SG85M18 |
| G85L-M20E   | M20x1.5                    | 2         | 12                       |                  |                  |                       |               | SG85M20            |         |                     |        |         |

\*Thread information of G85 external thread connectors must be confirmed to optimize the sealing design.



# G85

## External thread connectors

Instant | Convenient | Standard | High quality

One-stop connection solution

G85 specification sheet for instruments

| Part Number | Internal Thread Diameter A | Body Size | External Thread Height L | Termination Port | Maximum Pressure | Material of main body | Seals Package | Main Seals Package |
|-------------|----------------------------|-----------|--------------------------|------------------|------------------|-----------------------|---------------|--------------------|
| G85C-G01    | 1/8"(BSPT)                 | 1         | 9                        | 1/8"BSPP         | 350 Bar          | 316 Stainless Steel   | Buna-N        | SG85C01            |
| G85C-G02    | 1/4"(BSPT)                 | 1         |                          |                  |                  |                       |               | SG85C02            |
| G85C-G04    | 1/2"(BSPT)                 | 2         |                          |                  |                  |                       |               | SG85C04            |
| G85C-M10C   | M10x1.0                    | 1         |                          |                  |                  |                       |               | SG85CM10           |
| G85C-M14E   | M14x1.5                    | 1         | 2                        |                  |                  |                       |               | SG85CM14           |
| G85C-M20E   | M20x1.5                    | 2         |                          |                  |                  |                       |               | SG85CM20           |

G85 thread specification sheet

| Part Number | Internal Thread Diameter A | Body Size | External Thread Height L | Termination Port | Maximum Pressure | Material of main body | Seals Package | Main Seals Package |  |  |  |
|-------------|----------------------------|-----------|--------------------------|------------------|------------------|-----------------------|---------------|--------------------|--|--|--|
| G85L-G01    | G1/8"(BSPT)                | 1         | 8                        | 1/8"BSPP         | 200 Bar          | 316 Stainless Steel   | Buna-N        | SG8501             |  |  |  |
| G85L-G02    | G1/4"(BSPT)                | 1         |                          |                  |                  |                       |               | SG8502             |  |  |  |
| G85L-G03    | G3/8"(BSPT)                | 2         | 10                       | 1/4"BSPP         |                  |                       |               | SG8503             |  |  |  |
| G85L-G04    | G1/2"(BSPT)                | 2         |                          |                  |                  |                       |               | SG8504             |  |  |  |

G85 specification sheet for BSPT threads

| Part Number | Internal Thread Diameter A | Body Size | External Thread Height L | Termination Port | Maximum Pressure | Material of main body | Seals Package | Main Seals Package |        |  |  |
|-------------|----------------------------|-----------|--------------------------|------------------|------------------|-----------------------|---------------|--------------------|--------|--|--|
| G85L-R01    | G1/8"(BSPT)                | 1         | 8                        | 1/8"BSPP         | 200 Bar          | 316 Stainless Steel   | Buna-N        | SG8501             |        |  |  |
| G85L-R02    | G1/4"(BSPT)                | 1         |                          |                  |                  |                       |               | SG8502             |        |  |  |
| G85L-R03    | G3/8"(BSPT)                | 2         | 10                       | 1/4"BSPP         |                  |                       |               | SG8503             |        |  |  |
| G85L-R04    | G1/2"(BSPT)                | 2         |                          |                  |                  |                       |               |                    | SG8504 |  |  |

G85 specification sheet for NPT threads

| Part Number | Internal Thread Diameter A | Body Size | External Thread Height L | Termination Port | Maximum Pressure | Material of main body | Seals Package | Main Seals Package |
|-------------|----------------------------|-----------|--------------------------|------------------|------------------|-----------------------|---------------|--------------------|
| G85L-N01    | 1/8"NPT                    | 1         | 8                        | 1/8"BSPP         | 200 Bar          | 316 Stainless Steel   | Buna-N        | SG8501             |
| G85L-N02    | 1/4"NPT                    | 1         |                          |                  |                  |                       |               | SG8502             |
| G85L-N03    | 3/8"NPT                    | 2         | 10                       | 1/4"BSPP         |                  |                       |               | SG8503             |
| G85L-N04    | 1/2"NPT                    | 2         |                          |                  |                  |                       |               | SG8504             |

G85 specification sheet for SAE-45° threads

| Part Number | Internal Thread Diameter A | Body Size | External Thread Height L | Termination Port | Maximum Pressure | Material of main body | Seals Package | Main Seals Package |  |  |  |  |  |  |  |
|-------------|----------------------------|-----------|--------------------------|------------------|------------------|-----------------------|---------------|--------------------|--|--|--|--|--|--|--|
| G85L-U02    | UNF5/16-24                 | 1         | 12                       | 1/8"BSPP         | 200 Bar          | 316 Stainless Steel   | Buna-N        | SG85UN02           |  |  |  |  |  |  |  |
| G85L-U03    | UNF 3/8-24                 | 1         |                          |                  |                  |                       |               | SG85UN03           |  |  |  |  |  |  |  |
| G85L-U04    | UNF7/16-20                 | 1         |                          |                  |                  |                       |               | SG85UN04           |  |  |  |  |  |  |  |
| G85L-U05    | UNF 1/2-20                 | 1         | 15                       | 1/4"BSPP         |                  |                       |               | SG85UN05           |  |  |  |  |  |  |  |
| G85L-U06    | UNF9/16-18                 | 1         |                          |                  |                  |                       |               | SG85UN06           |  |  |  |  |  |  |  |
| G85L-U08    | UNF3/4-16                  | 2         | 21                       |                  |                  |                       |               | SG85UN08           |  |  |  |  |  |  |  |
| G85L-U10    | UNF 7/8-14                 | 2         |                          |                  |                  |                       |               | SG85UN10           |  |  |  |  |  |  |  |

# G90

## Lever connectors

Lever actuated operation | Non-destructive connection | Customized design | Maximum 1 Mpa | Aluminum alloy material | High sealing level

One-stop connection solution

The G90 series connectors are lever-type manual connectors. The body is made of aluminum alloy, which reduces the operation intensity while ensuring the strength of the connector. G90 adopts a special structural design internally, which will not cause damage to the surface of the customer's product and ensure the integrity of the customer's appearance. It is widely used in engine fuel rails and new energy cooling water outlets.

### Lever non-destructive connectors

- \* Lever actuated operation, saving time and effort
- \* No seals, saving consumables
- \* Aluminum alloy body, which is light and reliable
- \* Few leakage points and high sealing level

Features of G90 series quick connectors

- 1. Lever actuated**

The principle of leverage is used to reduce operational force and workload.
- 2. No seal**

The internal seal of the female fuel connector is used for sealing. Therefore, no maintenance consumables are needed, and the maintenance costs are zero.
- 3. High sealing level**

There is only one sealing point in the sealing channel of the connector, which makes it easy to pass the helium leak test.
- 4. Built-in shut-off valve (Optional)**

The connector is equipped with a normally-closed shut-off valve to ensure testing safety.
- 5. 360° rotation of the air inlet (Optional)**

The air inlet can rotate freely without entangling the air tube.

Body sizes

G90V series      G90L series      G90R series      G90S series



# G90 Lever connectors

One-stop connection solution

Lever actuated operation | Non-destructive connection | Customized design | Maximum 1 Mpa | Aluminum alloy material | High sealing level

# G90 Lever connectors

One-stop connection solution

Lever actuated operation | Non-destructive connection | Customized design | Maximum 1 Mpa | Aluminum alloy material | High sealing level

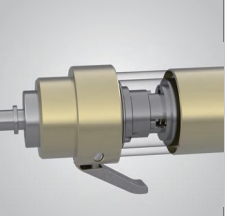
## Advantages of G90 quick connectors



Lever:  
Effortless, thumb operated, convenient and fast



Dual air inlets:  
Straight-through and side air inlets, configured flexibly based on the site environment



Built-in shut-off valve:  
Ensuring the Leak and safety in disconnected state

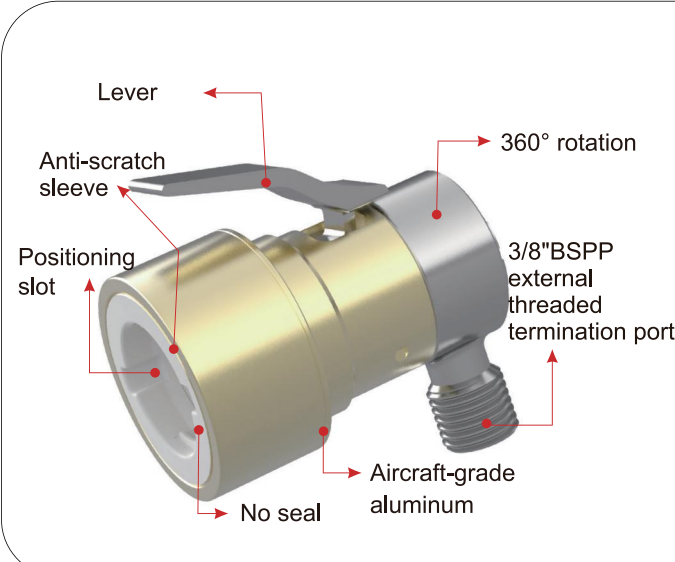


Seal-free design  
Using the seal inside the test piece to achieve sealing, zero maintenance cost



Applicable to NW connector:  
VDA-NW connector for non-destructive connection

## Specifications of G90 quick connectors



|                        |                                        |
|------------------------|----------------------------------------|
| Max operation pressure | From Vacuum to 10 Bar                  |
| Sealing range          | 10mm~56mm                              |
| Termination port       | 1/8"BSPP, 1/4"BSPP, 3/8"BSPP, 1/2"BSPP |
| Material of main body  | Aluminum alloy, stainless steel, nylon |
| Main seal              | Buna-N                                 |
| Internal seal          | Buna-N                                 |
| Operation temperature  | -20°C - 120°C                          |

### How to use G90



1. Align the G90 with the female connector, and insert it into the female connector to achieve sealing

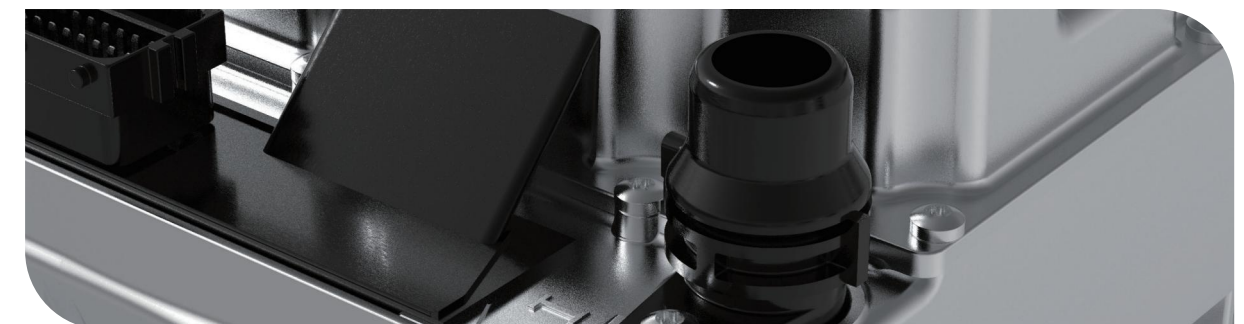


2. Press the side lever to pull out the G90.

## Applications



Engine fuel system



Electronic control cooling system of the electric vehicle

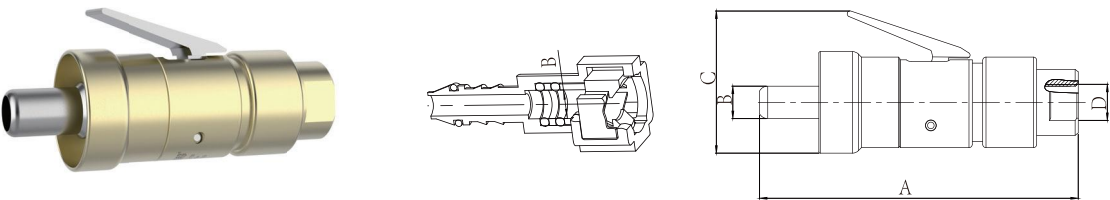


Engine cooling system

# G90 Lever connectors

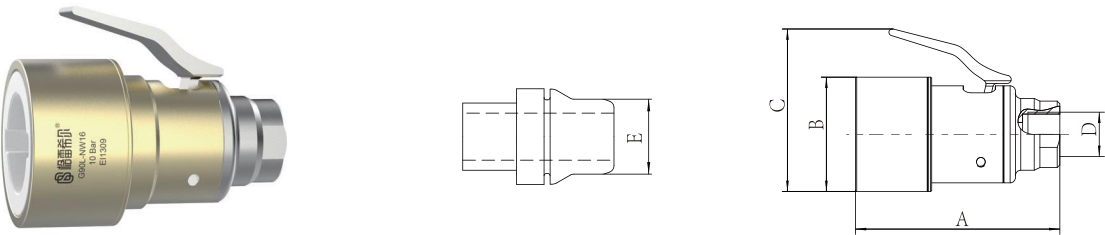
One-stop connection solution

Lever actuated operation | Non-destructive connection | Customized design | Maximum 1 Mpa | Aluminum alloy material | High sealing level



G90L quick connectors - J2044 female connectors

| Part Number | Dim A | Body Size | Dim B | Dim C | Termination Port D | Female Connector Size B | Maximum Pressure | Material of main body | Main Seals Package |
|-------------|-------|-----------|-------|-------|--------------------|-------------------------|------------------|-----------------------|--------------------|
| G90L-J063   | 116   | 90J1      | Φ6.3  | 52    | 1/4"BSPP           | 6.3                     | 10Bar            | Aluminum alloy        | SG90LJ063          |
| G90L-J079   | 116   | 90J1      | Φ7.9  | 52    | 1/4"BSPP           | 7.9                     |                  |                       | SG90LJ079          |
| G90L-J095   | 116   | 90J1      | Φ9.5  | 52    | 1/4"BSPP           | 9.5                     |                  |                       | SG90LJ095          |
| G90L-J099   | 116   | 90J1      | Φ9.9  | 52    | 1/4"BSPP           | 9.9                     |                  |                       | SG90LJ099          |
| G90L-J110   | 116   | 90J1      | Φ11.0 | 52    | 1/4"BSPP           | 11.0                    |                  |                       | SG90LJ110          |
| G90L-J118   | 116   | 90J1      | Φ11.8 | 52    | 1/4"BSPP           | 11.8                    |                  |                       | SG90LJ118          |
| G90L-J126   | 116   | 90J2      | Φ12.6 | 55    | 3/8"BSPP           | 12.6                    |                  |                       | SG90LJ126          |
| G90L-J158   | 116   | 90J2      | Φ15.8 | 55    | 3/8"BSPP           | 15.8                    |                  |                       | SG90LJ158          |
| G90L-J189   | 116   | 90J2      | Φ18.9 | 55    | 3/8"BSPP           | 18.9                    |                  |                       | SG90LJ189          |



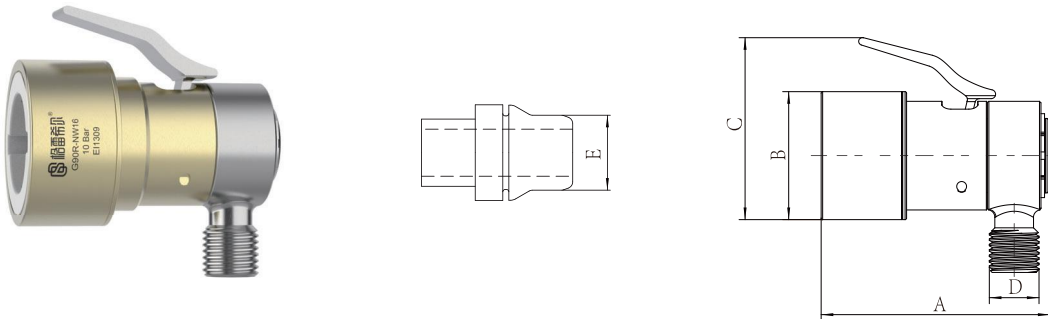
G90L quick connectors (straight-through) - VDA male connectors

| Part Number | Dim A | Body Size | Dim B | Dim C | Dim D    | Connector Size E | Maximum Pressure | Material of main body | Seal Material | Main Seals Package |
|-------------|-------|-----------|-------|-------|----------|------------------|------------------|-----------------------|---------------|--------------------|
| G90L-NW06   | 88    | 90NW1     | Φ39   | 55    | 1/4"BSPP | Φ10.4            | 10Bar            | Aluminum alloy        | Buna-N        | SG90LNW06          |
| G90L-NW08   | 88    | 90NW1     | Φ39   | 55    |          | Φ12.4            |                  |                       |               | SG90LNW08          |
| G90L-NW12   | 77    | 90NW2     | Φ43   | 61    |          | Φ16.3            |                  |                       |               | SG90LNW12          |
| G90L-NW14   | 77    | 90NW2     | Φ43   | 61    |          | Φ17.5            |                  |                       |               | SG90LNW14          |
| G90L-NW14US | 79    | 90NW3     | Φ49   | 64    | 3/8"BSPP | Φ19.2            |                  |                       |               | SG90LNW14US        |
| G90L-NW16   | 79    | 90NW3     | Φ49   | 64    |          | Φ22.3            |                  |                       |               | SG90LNW16          |
| G90L-NW18   | 81    | 90NW4     | Φ53   | 66    |          | Φ23.8            |                  |                       |               | SG90LNW18          |
| G90L-NW20   | 81    | 90NW4     | Φ53   | 66    |          | Φ26.3            |                  |                       |               | SG90LNW20          |
| G90L-NW26   | 83    | 90NW5     | Φ60   | 68    |          | Φ32.5            |                  |                       |               | SG90LNW26          |
| G90L-NW32   | 85    | 90NW6     | Φ66   | 75    |          | Φ38.5            |                  |                       |               | SG90LNW32          |

# G90 Lever connectors

One-stop connection solution

Lever actuated operation | Non-destructive connection | Customized design | Maximum 1 Mpa | Aluminum alloy material | High sealing level



G90R quick connectors (L-type) - VDA male connectors

| Part Number | Dim A | Body Size | Dim B | Dim C | Dim D    | Connector Size E | Maximum Pressure | Material of main body | Seal Material | Main Seals Package |
|-------------|-------|-----------|-------|-------|----------|------------------|------------------|-----------------------|---------------|--------------------|
| G90R-NW06   | 75    | 90NW1     | Φ37   | 58    | 3/8"BSPP | Φ10.4            | 10Bar            | Aluminum alloy        | Buna-N        | SG90RNW06          |
| G90R-NW08   | 75    | 90NW1     | Φ37   | 58    |          | Φ12.4            |                  |                       |               | SG90RNW08          |
| G90R-NW12   | 77    | 90NW2     | Φ43   | 61    |          | Φ16.3            |                  |                       |               | SG90RNW12          |
| G90R-NW14   | 77    | 90NW2     | Φ43   | 61    |          | Φ17.5            |                  |                       |               | SG90RNW14          |
| G90R-NW14US | 79    | 90NW3     | Φ49   | 64    |          | Φ19.2            |                  |                       |               | SG90RNW14US        |
| G90R-NW16   | 79    | 90NW3     | Φ49   | 64    |          | Φ22.3            |                  |                       |               | SG90RNW16          |
| G90R-NW18   | 81    | 90NW4     | Φ53   | 66    |          | Φ23.8            |                  |                       |               | SG90RNW18          |
| G90R-NW20   | 81    | 90NW4     | Φ53   | 66    |          | Φ26.3            |                  |                       |               | SG90RNW20          |
| G90R-NW26   | 83    | 90NW5     | Φ60   | 68    |          | Φ32.5            |                  |                       |               | SG90RNW26          |
| G90R-NW32   | 85    | 90NW6     | Φ66   | 75    |          | Φ38.5            |                  |                       |               | SG90RNW32          |

GripSeal provides more non-standard size sealing solutions. Please contact us for more information.



# G90

Lever connectors

One-stop connection solution

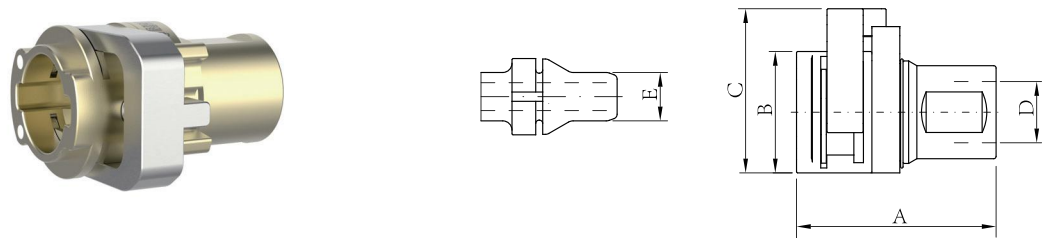
Lever actuated operation | Non-destructive connection | Customized design | Maximum 1 Mpa | Aluminum alloy material | High sealing level

# G90

Lever connectors

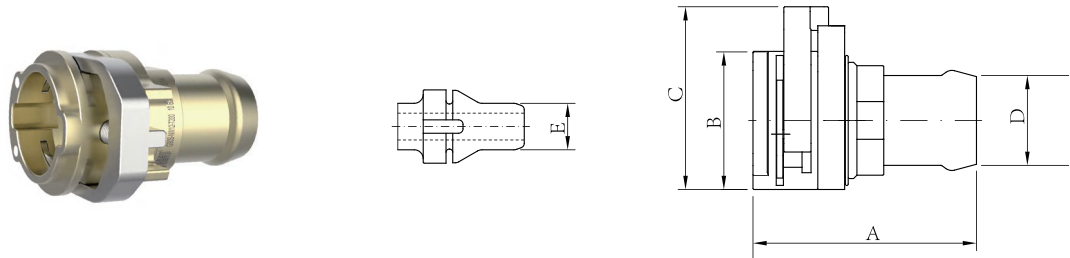
One-stop connection solution

Lever actuated operation | Non-destructive connection | Customized design | Maximum 1 Mpa | Aluminum alloy material | High sealing level



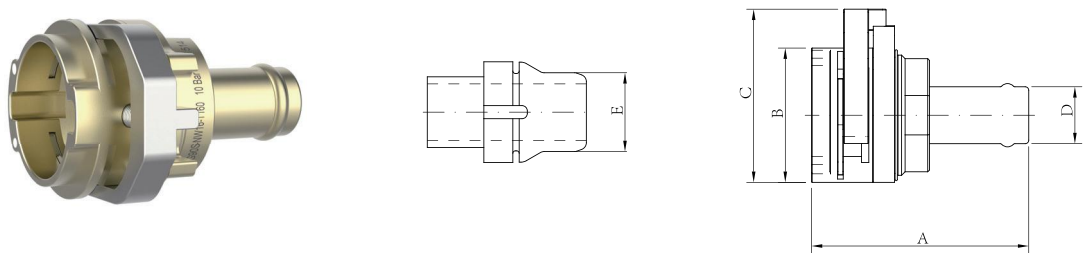
G90S quick connectors - VDA male connectors

| Part Number     | Dim A | Body Size | Dim B | Dim C | Dim D      | Connector Size E | Maximum Pressure | Material of main body | Seal Material | Main Seals Package |
|-----------------|-------|-----------|-------|-------|------------|------------------|------------------|-----------------------|---------------|--------------------|
| G90S-NW06-045   | 43    | 90SNW1    | Φ26   | 35    | 1/4"BSPP   | Φ10.4            | 10Bar            | Aluminum alloy        | Buna-N        | SG90SNW06          |
| G90S-NW08-065   | 45    | 90SNW2    | Φ28   | 37    | 3/8"BSPP   | Φ12.4            |                  |                       |               | SG90SNW08          |
| G90S-NW12-085   | 48    | 90SNW3    | Φ31   | 40    | 1/2"BSPP   | Φ16.3            |                  |                       |               | SG90SNW12          |
| G90S-NW14-085   | 45    | 90SNW4    | Φ32   | 42    | 1/2"BSPP   | Φ17.5            |                  |                       |               | SG90SNW14          |
| G90S-NW14US-085 | 48    | 90SNW5    | Φ35   | 45    | 1/2"BSPP   | Φ19.2            |                  |                       |               | SG90SNW14US        |
| G90S-NW16-085   | 51    | 90SNW6    | Φ38   | 49    | 1/2"BSPP   | Φ22.3            |                  |                       |               | SG90SNW16          |
| G90S-NW18-085   | 53    | 90SNW7    | Φ40   | 52    | 1/2"BSPP   | Φ23.8            |                  |                       |               | SG90SNW18          |
| G90S-NW20-125   | 58    | 90SNW8    | Φ45   | 58    | 3/4"BSPP   | Φ26.3            |                  |                       |               | SG90SNW20          |
| G90S-NW26-165   | 66    | 90SNW9    | Φ51   | 64    | 1"BSPP     | Φ32.5            |                  |                       |               | SG90SNW26          |
| G90S-NW32-205   | 74    | 90SNW10   | Φ60   | 72    | 1-1/4"BSPP | Φ38.5            |                  |                       |               | SG90SNW32          |



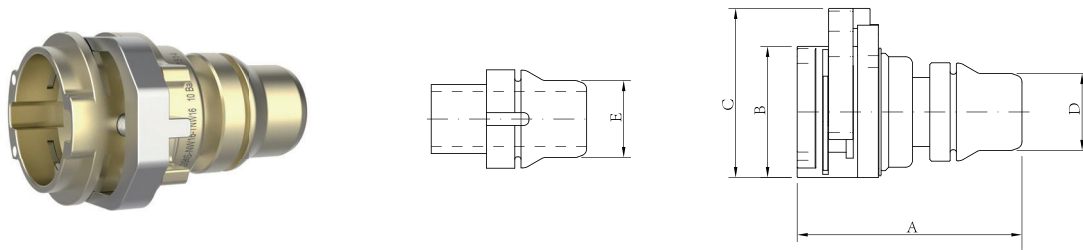
G90S quick connectors (straight-through) - VDA male connectors

| Part Number    | Dim A | Dim B | Dim C | Dim D | Connector Size E | Maximum Pressure | Material of main body | Seal Material | Main Seals Package |
|----------------|-------|-------|-------|-------|------------------|------------------|-----------------------|---------------|--------------------|
| G90S-NW12-T200 | 50    | Φ31   | 41    | Φ20   | Φ16.3            | 10 Bar           | Aluminum alloy        | Buna-N        | SG90SNW12          |
| G90S-NW14-T200 | 52    | Φ32   | 42    |       | Φ17.5            |                  |                       |               | SG90SNW14          |
| G90S-NW16-T200 | 54    | Φ38   | 49    |       | Φ22.3            |                  |                       |               | SG90SNW16          |



G90S quick connectors (straight-through) - VDA male connectors

| Part Number    | Dim A | Dim B | Dim C | Dim D | Connector Size E | Maximum Pressure | Material of main body | Seal Material | Main Seals Package |
|----------------|-------|-------|-------|-------|------------------|------------------|-----------------------|---------------|--------------------|
| G90S-NW16-T160 | 62    | Φ38   | 49    | Φ16   | Φ22.3            | 10 Bar           | Aluminum alloy        | Buna-N        | SG90SNW16          |



G90S quick connectors (straight-through) - VDA male connectors

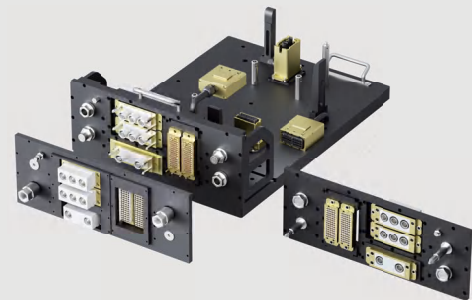
| Part Number     | Dim A | Dim B | Dim C | Dim D | Connector Size E | Maximum Pressure | Material of main body | Seal Material | Main Seals Package |
|-----------------|-------|-------|-------|-------|------------------|------------------|-----------------------|---------------|--------------------|
| G90S-NW16-TNW16 | 65    | Φ38   | 49    | Φ22.3 | Φ22.3            | 10 Bar           | Aluminum alloy        | Buna-N        | SG90SNW16          |



# GripSeal Docking panel assembly + male/female connector

One-stop connection solution

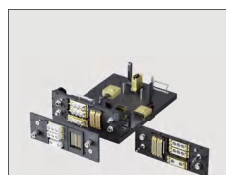
Flexible customization | Short delivery time | Full range of models | Quick operation | Reliable sealing



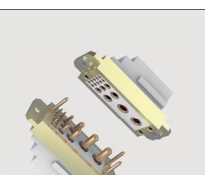
## Docking panel assembly

The C9 docking panel assembly is a one-stop solution for quick connection of automatic or manual pallet production systems. It provides a total solution for high current, signal electricity, cooling water, as well as test electrical connectors and quick sealing connectors for docking with test products. The C9 docking panel assembly solution can greatly simplify the open process of pallet-related production lines for automation companies or end customers, achieve high reliability, long lifespan, high flexibility of core components, and obtain non-standard customized design capabilities.

The C9 docking panel assembly consists of the following series of products:



C9 series docking panel



C9M series male/female docking module



E series test electrical connector



C series auto male/female connector



G series quick sealing connector

## Male/female connector

The dripless male/female connectors are developed to significantly reduce the risk of leakage caused by internal fluid overflow. These connectors greatly reduce the residue and leakage of disconnected liquids, and achieving a dripless level. This is particularly important for many scenarios involving liquids and electronic components. The dripless male/female connectors also greatly improve the cleanliness and neatness of on-site equipment, avoiding the risk of electric shock or significant equipment damage caused by leaks from a design perspective. Most of GripSeal male/female connectors are made of SUS316 or special stainless steel, designed for durable occasions and able to meet the long-term demanding requirements of some application scenarios. GripSeal also provides some plastic-metal hybrid connectors that balance cost and performance to meet larger scale application scenarios, and our product line is constantly expanding.

Some models of male/female connectors



C21 male/female connector



C23 male/female connector



C26 male/female connector

## Warranty

GripSeal grants a one-year limited warranty on all connectors sold (excluding some metal wear parts and seals) from the date of shipment. The warranty will be void if the connectors are used beyond the specifications written or indicated on the connectors, or if issues are caused by misuse by the customers.

All returns of GripSeal must be made in advance with a sales representative or authorized agent and, if necessary, a return code must be obtained. GripSeal assumes limited liability for all returned products, either by providing the necessary parts for replacement and repair, or by returning the product for partial or full payment of the corresponding connector. Other than that, GripSeal will not be liable for any damages related to non-application or failure.

## Reconditioning & Recycling Programs

All GripSeal quick connectors are designed to reused multiple times by replacing wear parts, rather than just disposable use.

In addition to the replacement of wear parts to extend service life, GripSeal offers additional maintenance or renewal programs to protect your valuable inputs. There are usually two parts: 1) Reconditioning program: By replacing the necessary parts/seals and passing a rigorous test, it is possible to achieve a level of performance almost equivalent to new products, yet at a possible cost of only about 20-50%. 2) Recycling program: The used connectors are returned to our company to get a discount corresponding to the new purchase. Depending on the age of the connectors, a discount of approximately 10-30% is offered. Please contact our sales representative for details.

## Revision Disclaimer

All connector specifications specified in this brochure, including dimensions, pressure ranges, materials, seal specifications and materials, etc., are subject to revision without notice to customers. GripSeal reserves the right to inform customers that the accuracy of the brochure information is not guaranteed. For the sake of safeguarding your interests, please contact an authorized agent or sales representative to obtain the latest information before purchasing to ensure the suitability of the products.

## Intellectual Property Rights

All intellectual property rights of GripSeal connectors are reserved and protected by GripSeal. No individual or company is allowed to reproduce or duplicate GripSeal connectors or components without written permission.

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