

G30

High-Pressure OD Quick Connector

ONE-STOP CONNECTION

High-Pressure Testing | Jaw Locking | Full Model Range | Simple Operation | Various Seal Materials | OD Sealing |

The G30 series is a high-pressure connector and the best external-diameter sealing solution for copper, steel and aluminum tubes. It is widely used in refrigeration and new energy industries, such as heat exchangers, pressure vessels, instruments, meters and motor controller cooling plates.



High-Pressure External Grip Connection Solution

- * More effective testing lowers overall manufacturing cost
- * Eliminates waste caused by failed tests
- * Improves the stability of the entire test process
- * Metal locking structure raises the pressure limit

G30 Series Quick Connector Features

1. Pressure-assisted design

Sealing force increases as test pressure rises.

2. Handle drive

Insert the test tube into the front sealing bore of the connector and fold the handle through 90° to make the sealed connection.

3. High-hardness locking jaws

The jaw surface is grooved to increase the contact area and provide higher gripping force; the high-hardness jaws can grip stainless steel and low-carbon steel.

4. Taper pipe threaded test port

Standard ZBSPP1/8 or ZBSPP1/4 threaded side port, better suited to domestic applications.

5. Disconnection

Once test pressure has dropped to zero, fold the handle back: the seal is released and the connection is disconnected

The G30 series includes many imperial and metric models, covering sealing of tubes from 6 mm to 22.23 mm OD. Selected Bodies

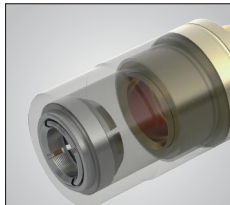


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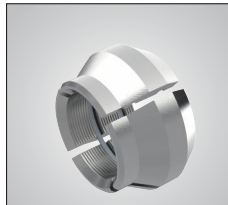
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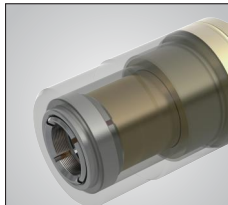
G30 Quick Connector Advantages and Features



High-hardness locking jaws: Locking jaws grip the outer wall of the tube firmly, raising the pressure limit



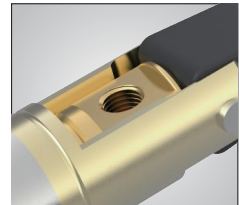
Grooved jaws: Fine grooves on the locking jaws increase the contact area and provide more reliable gripping force



Automatic return: Reduces operating effort and the risk of jamming while improving efficiency



Nylon handle: Ergonomic design for a more comfortable grip



Taper pipe threaded fluid port: compliant with international standards, widely used domestically, with easily available accessories for simpler sealing

G30 Quick Connector Specifications



Max. Op. Pressure	Vacuum to 70 Bar
Sealing Range	6mm ~ 35mm
Min. Insert Depth	25mm
Flow Port	ZBSPP1/8 or ZBSPP1/4
Material	Aluminum, Stainless, Nylon
Main Seal	FKM
Inner Seal	NBR
Operating Temp.	-20 °C to +120 °C

G30 Operation Demo



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



2. Push the test piece all the way to the bottom of the test port.



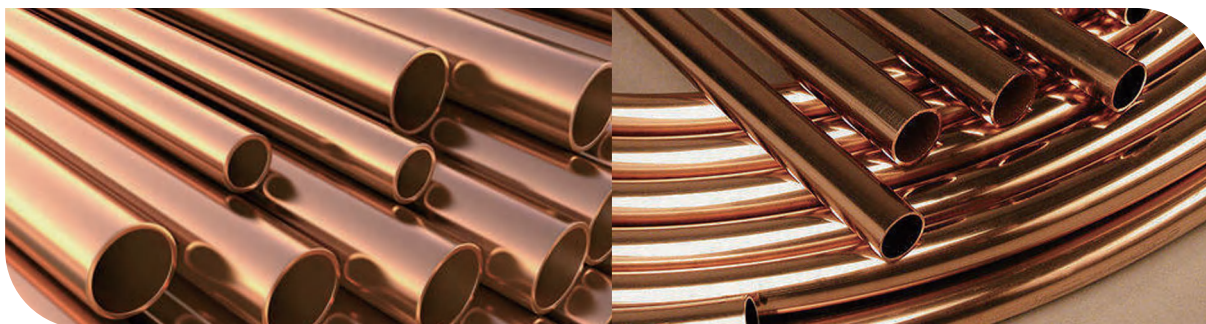
3. Turn the handle: the test piece is locked in the test port and sealing is complete

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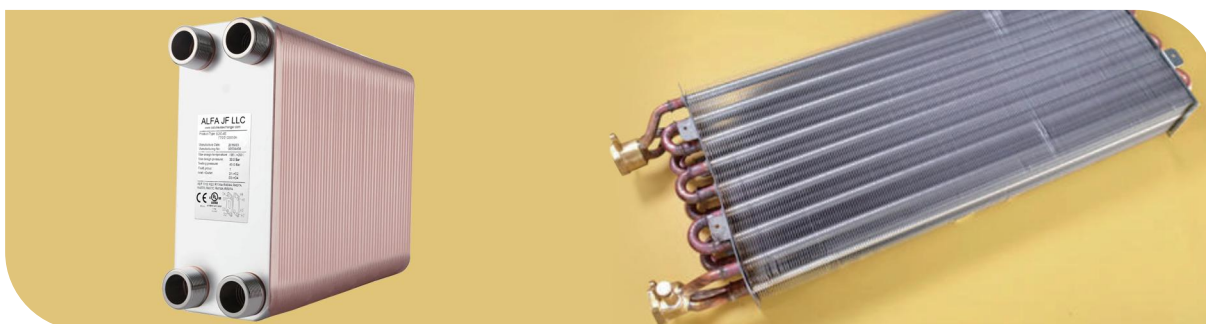
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Application Cases



Process Pipe Sealing and Testing



Air-Conditioner Radiator Testing

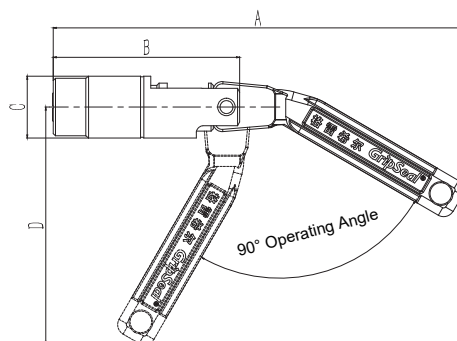
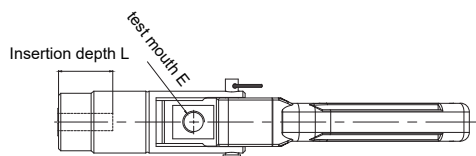


Engine Cooling Channel Testing

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Imperial Size Applications

Model	Seal Dim. (mm)±0.25	Max. Pressure	Flow Bore	Dim. A	Dim. B	Dim. C	Dim. D	Test Port E	Dim. L	Material	Seal Material	Seal No.					
G30-0063	6.35	70 Bar	7	193	89	31	109.5	BSPT1/8	25	Aluminum	FKM	SG30-0063					
G30-0079	7.92											SG30-0079					
G30-0095	9.52											SG30-0095					
G30-0127	12.7											SG30-0127					
G30-1159	15.88		10			40	109.5	BSPT1/4				SG30-1159					
G30-1190	19.05											SG30-1190					

Metric Size Applications

Model	Seal Dim. (mm)±0.25	Body No.	Max. Pressure	Flow Bore	Dim. A	Dim. B	Dim. C	Dim. D	Test Port E	Dim. L	Material	Seal Material	Seal No.
G30-0030	3.0	0	70 Bar	7	193	89	31	109.5	BSPT1/8	25	Aluminum	FKM	SG30-0030
G30-0040	4.0												SG30-0040
G30-0050	5.0												SG30-0050
G30-0060	6.0												SG30-0060
G30-0070	7.0												SG30-0070
G30-0080	8.0												SG30-0080
G30-0085	8.5												SG30-0085
G30-0090	9.0												SG30-0090
G30-0100	10.0												SG30-0100
G30-0110	11.0												SG30-0110
G30-0120	12.0												SG30-0120
G30-1130	13.0	1	70 Bar	10	193	89	40	109.5	BSPT1/4	25	Aluminum	FKM	SG30-1130
G30-1135	13.5												SG30-1135
G30-1140	14.0												SG30-1140
G30-1150	15.0												SG30-1150
G30-1160	16.0												SG30-1160
G30-1170	17.0												SG30-1170
G30-1180	18.0												SG30-1180
G30-1200	20.0												SG30-1200
G30-1210	21.0												SG30-1210
G30-1213	21.3												SG30-1213
G30-1220	22.0												SG30-1220
G30-1222	22.2												SG30-1222
G30-2230	23.0	2	50 Bar	16	193	89	52.8	109.5	BSPT3/8	25	Aluminum	FKM	SG30-2230
G30-2250	25.0												SG30-2250
G30-2254	25.4												SG30-2254
G30-2266	26.6												SG30-2266
G30-2285	28.5												SG30-2285
G30-2320	32.0												SG30-2320

All GripSeal connectors are designed with safety built in from the start. However, users of the connectors are responsible for designing their own safety precautions, to avoid property damage caused by incorrect sizing or other reasons. Safety chains, protective nets, protective cages or dedicated fixtures are all good protective measures. GripSeal can also provide, or help customers identify, potential safety hazards.