

G35

High-Pressure Internal Expanding Quick Connector

ONE-STOP CONNECTION

High-Pressure Testing | O-Ring | Locking | Full Model Range | Fast Operation | Various Seal Materials |

The G35 series is a high-pressure connector and the best internal 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.



Self-Locking High-Pressure ID Connection Solution

- * Improved work efficiency and lower production cost
- * Reliable sealing and long service life
- * Lightweight and quick, reducing work intensity
- * Built-in locking structure, suitable for high-pressure working environments

G35 Series Quick Connector Features

1. Pressure-assisted design

Sealing force increases as test pressure rises.

2. Handle drive

Insert the front seal of the connector into the test port 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. G or ZG threaded test port

Standard BSPP1/8 threaded side port, better suited to domestic applications; ZG threads are available for high-pressure test situations and seal more easily.

5. Disconnection

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

More than ten standard models cover sealing of tube diameters from 9.52 mm to 41.28 mm; other sizes can be customised up to 100 mm

Selected Bodies



G35P Series

G35P2 Series

G35 Series

G35C-P Series

G35C-P2 Series

G35N Series

G35N-P2 Series

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G35 Quick Connector Advantages and Features

 Locking jaws: they grip the inner wall of the tub firmly, raising the pressure limite	 Grooved jaws: fine grooves on thelocking jaws increase the contact area and provide more reliable gripping force. *Only available on bodies 1 and 2	 Multi-point locking: the special jaw shape provides multi-point contact for greater gripping force while reducing scratches on thebore	 Aviation aluminum with nylon handle: light to operate, reducing operator fatigue	 Pipe threaded fluid port: compliant with international standards, widely used domestically, with easily available accessories
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G35 Quick Connector Specifications



Max. Op. Pressure	Vacuum to 50 Bar or 70 Bar
Sealing Range	8mm ~ 100mm
Min. Insert Depth	Bodies 0, 1: 12 mm Body 2: 23 mm
Flow Port	BSPP1/8 or BSPT1/8 threaded port
Material	Aluminum, Stainless, Nylon
Main Seal	NBR
Inner Seal	NBR
Operating Temp.	-20 °C to +120 °C

G35 Operation Demo

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1. Align the connector with the inside of the tube



2. Insert the connector into the tube



3. Turn the handle: the test piece islocked by the connector jaws and sealing is complete

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Application Cases



EV Battery Cold Plate Testing



Air-Conditioner Radiator Testing



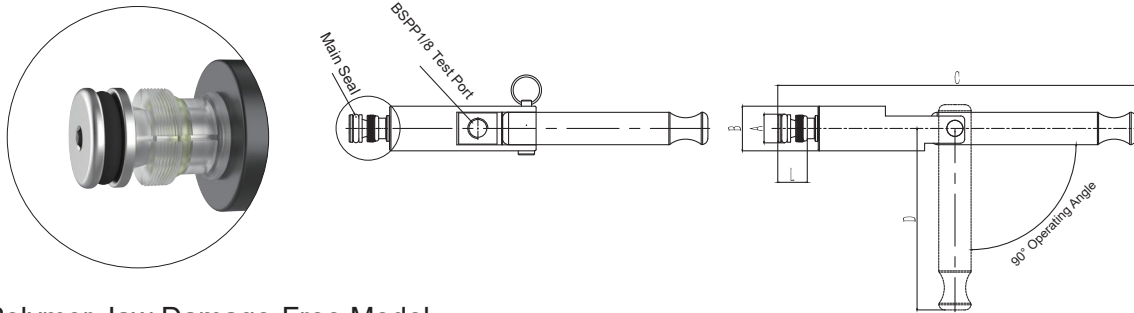
Engine Cooling Channel Testing

G35P

Low-Pressure Internal Expanding
Damage-Free Quick Connector

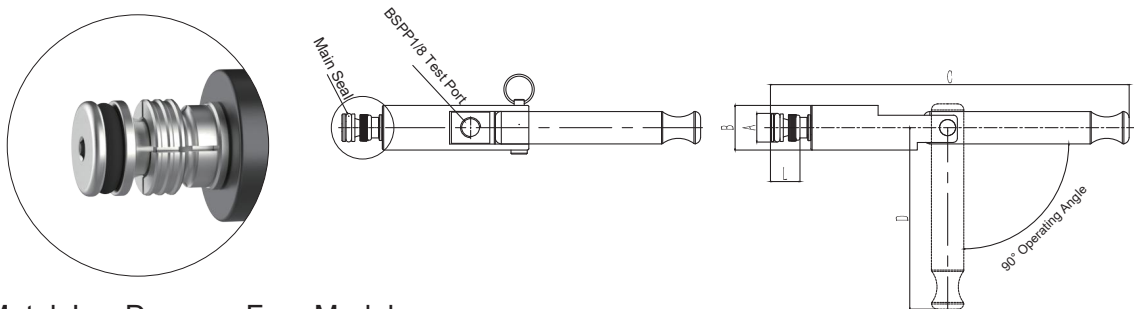
ONE-STOP CONNECTION

Testing up to 10 Bar | O-Ring | Engineering Plastic Locking | Full Model Range | Fast Operation | Various Seal Materials |



Polymer Jaw Damage-Free Model

Model	Seal Dimension	Max. Press.	Flow Bore	Dim. B	Dim. C	Dim. D	Insert Depth L	Material	Seal Material	Seal No.
G35P-0100	10.0	7 Bar	2.8mm	22	177	90	12	Aluminum	NBR	SG35P-0100
G35P-0110	11.0									SG35P-0110
G35P-0120	12.0									SG35P-0120
G35P-0130	13.0									SG35P-0130
G35P-0140	14.0									SG35P-0140
G35P-1150	15.0		4mm	182	14.5	SG35P-1150				
G35P-1160	16.0					SG35P-1160				
G35P-1170	17.0					SG35P-1170				
G35P-1180	18.0					SG35P-1180				
G35P-1190	19.0					SG35P-1190				
G35P-1220	20.0					SG35P-1220				



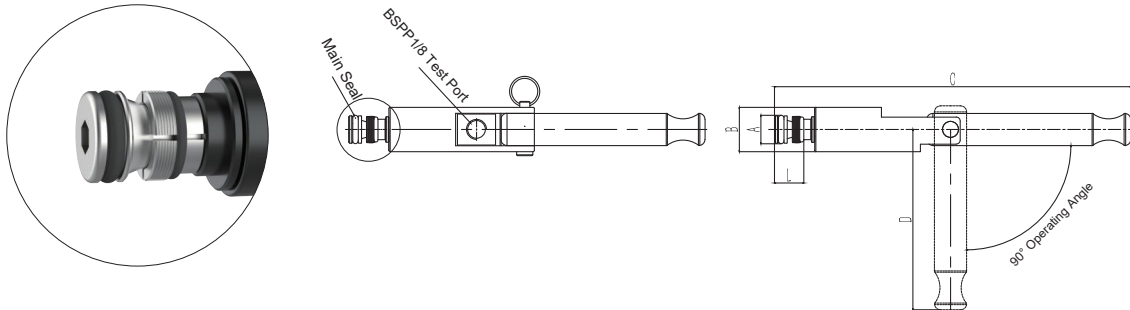
Metal Jaw Damage-Free Model

Model	Seal Dimension	Max. Press.	Flow Bore	Dim. B	Dim. C	Dim. D	Insert Depth L	Material	Seal Material	Seal No.
G35P2-0100	10.0	10 Bar	2.8mm	22	177	90	12	Aluminum	NBR	SG35P2-0100
G35P2-0110	11.0									SG35P2-0110
G35P2-0120	12.0									SG35P2-0120
G35P2-0130	13.0									SG35P2-0130
G35P2-0140	14.0									SG35P2-0140
G35P2-1150	15.0		4mm	182	14.5	SG35P2-1150				
G35P2-1160	16.0					SG35P2-1160				
G35P2-1170	17.0					SG35P2-1170				
G35P2-1180	18.0					SG35P2-1180				
G35P2-1190	19.0					SG35P2-1190				
G35P2-1200	20.0					SG35P2-1200				

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Metric Size Applications

Model	Seal Dim. (mm)±0.25	Max. Press.	Flow Bore	Dim. B	Dim. C	Dim. D	Insert Depth L	Material	Seal Materia	Seal No.
G35-0100	10.00	50Bar	2.8mm	22	177		12	Aluminum	NBR	SG35-0100
G35-0110	11.00									SG35-0110
G35-0120	12.00									SG35-0120
G35-0130	13.00									SG35-0130
G35-0140	14.00									SG35-0140
G35-1150	15.00		4.0mm		182	90	14.5			SG35-1150
G35-1160	16.00									SG35-1160
G35-1170	17.00									SG35-1170
G35-1180	18.00									SG35-1180
G35-1190	19.00									SG35-1190
G35-1200	20.00									SG35-1200
G35-1210	21.00									SG35-1210
G35-1220	22.00									SG35-1220
G35-1230	23.00									SG35-1230

Imperial Size Applications

Model	Seal Dim. (mm)±0.25	Max. Press.	Flow Bore	Dim. B	Dim. C	Dim. D	Insert Depth L	Material	Seal Material	Seal No.	
G35-0095	9.52	50Bar	2.8mm	22	177	90	12	Aluminum	NBR	SG35-0095	
G35-0127	12.7									SG35-0127	
G35-1159	15.88		4.0mm		182		14.5				SG35-1159
G35-1222	22.23										SG35-1222
G35-2254	25.4									23	SG35-2254

Custom Size Applications

Model	Seal Dim. (mm)±0.25	Max. Press.	Flow Bore	Dim. L	Material	Seal Material	Seal No.
G35-1XXX	14-25	70Bar *	4mm	15	Aluminum	NBR	SG35-1XXX
G35-2XXX	25-35	50Bar *	4mm	25			SG35-2XXX
G35-3XXX	35-60	20Bar *	7mm	25			SG35-3XXX

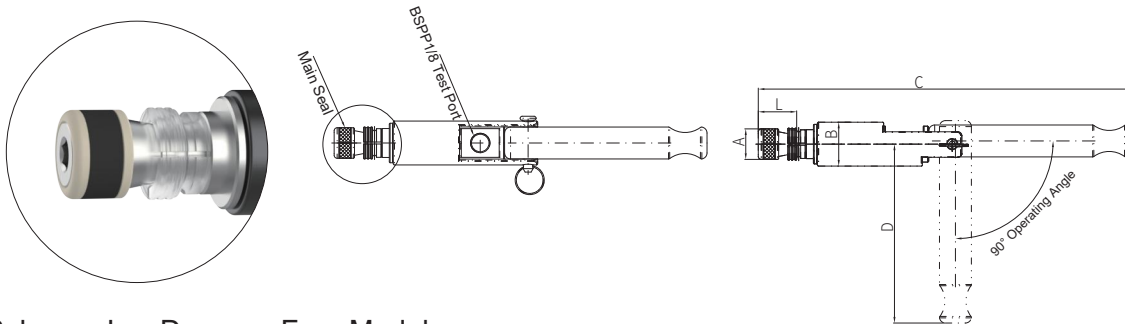
Note: * Maximum pressure depends on the material and structural strength of the tube; maximum pressure can reach 70 Bar.

G35C

Internal Expanding Low-Pressure Connector

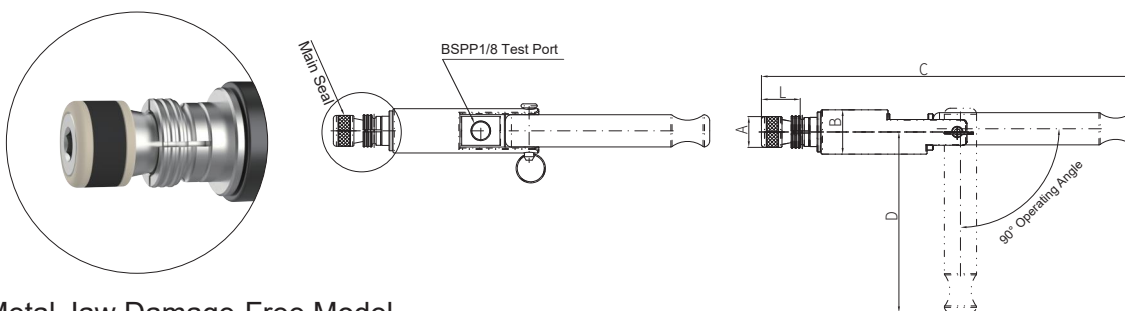
ONE-STOP CONNECTION

Fast Replacement | Wide Range | Internal Expanding | Compact | Various Seal Materials |



Polymer Jaw Damage-Free Model

Model	Seal Range	Max. Press.	Flow Bore	Dim. B	Dim. C	Dim. D	Insert Depth L	Material	Seal Material	Seal No.
G35C-0100P	9.5-10.5	7Bar	2.8mm	22	177	90	18	Aluminum	Neoprene	SG35C-0100P
G35C-0110P	10.5-11.5									SG35C-0110P
G35C-0120P	11.5-12.5									SG35C-0120P
G35C-0130P	12.5-13.5									SG35C-0130P
G35C-0140P	13.5-14.5									SG35C-0140P
G35C-1150P	14.5-15.5		4mm	182	19	SG35C-1150P				
G35C-1160P	15.5-16.5					SG35C-1160P				
G35C-1170P	16.5-17.5					SG35C-1170P				
G35C-1180P	17.5-18.5					SG35C-1180P				
G35C-1190P	18.5-19.5					SG35C-1190P				
G35C-1200P	19.5-20.5	SG35C-1200P								



Metal Jaw Damage-Free Model

Model	Seal Range	Max. Press.	Flow Bore	Dim. B	Dim. C	Dim. D	Insert Depth L	Material	Seal Material	Seal No.
G35C-0100P2	9.5-10.5	10Bar	2.8mm	22	177	90	18	Aluminum	Neoprene	SG35C-0100P2
G35C-0110P2	10.5-11.5									SG35C-0110P2
G35C-0120P2	11.5-12.5									SG35C-0120P2
G35C-0130P2	12.5-13.5									SG35C-0130P2
G35C-0140P2	13.5-14.5									SG35C-0140P2
G35C-1150P2	14.5-15.5		4mm	187	19	SG35C-1150P2				
G35C-1160P2	15.5-16.5					SG35C-1160P2				
G35C-1170P2	16.5-17.5					SG35C-1170P2				
G35C-1180P2	17.5-18.5					SG35C-1180P2				
G35C-1190P2	18.5-19.5					SG35C-1190P2				
G35C-1200P2	19.5-20.5					SG35C-1200P2				

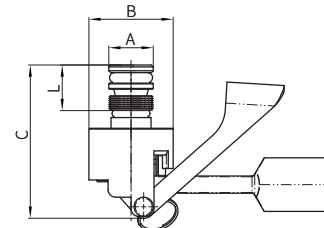
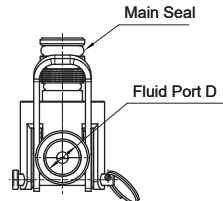
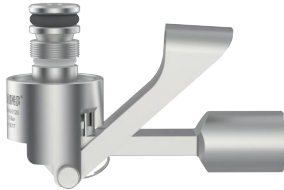
GripSeal offers additional non-standard sealing solutions - please contact us anytime if required!

G35N

Mini Internal Expanding Quick Connector

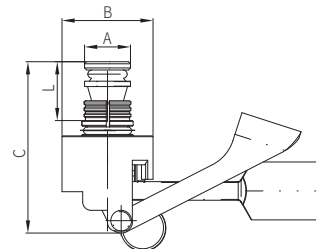
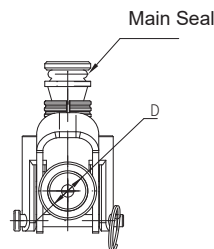
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Metal Jaw Standard Model

Model	Seal Dim.	Max. Press.	Flow Bore	Dim. B	Dim. C	Fluid Port D	Insert Depth L	Material	Seal Material	Seal No.		
G35N-0100	10.0	10Bar	3mm	22	40	BSPP1/8	12	Stainless	NBR	SG35-0100		
G35N-0110	11.0									SG35-0110		
G35N-0120	12.0									SG35-0120		
G35N-0130	13.0									SG35-0130		
G35N-0140	14.0									SG35-0140		
G35N-1150	15.0						14.5			SG35-1150		
G35N-1160	16.0									SG35-1160		
G35N-1170	17.0									SG35-1170		
G35N-1180	18.0									SG35-1180		
G35N-1190	19.0									SG35-1190		



Metal Jaw Damage-Free Model

Model	Seal Dim.	Max. Press.	Flow Bore	Dim. B	Dim. C	Fluid Threaded Port D	Insert Depth L	Material	Seal Material	Seal No.		
G35N-0100P2	10.0	7 Bar	3mm	22	40	BSPP1/8	12	Stainless	NBR	SG35N-0100P2		
G35N-0110P2	11.0									SG35N-0110P2		
G35N-0120P2	12.0									SG35N-0120P2		
G35N-0130P2	13.0									SG35N-0130P2		
G35N-0140P2	14.0									SG35N-0140P2		
G35N-1150P2	15.0						14.5			SG35N-1150P2		
G35N-1160P2	16.0									SG35N-1160P2		
G35N-1170P2	17.0									SG35N-1170P2		
G35N-1180P2	18.0									SG35N-1180P2		
G35N-1190P2	19.0									SG35N-1190P2		