

G90 Lever-Type Connector

ONE-STOP CONNECTION

Lever Operation | Damage-Free Connection | Custom Design | Up to 1 MPa | Aluminum Alloy | High Sealing Class |

The G90 series is a lever-operated manual connector. Its aluminum body keeps the connector strong while reducing operating effort. The special internal structure does not damage the customer product surface, preserving its appearance. It is widely used for engine fuel rails and new energy coolant ports.



Lever-Type Damage-Free Connector

- * Lever operation saves time and effort
- * No seal, so no consumables
- * Aluminum construction: light and robust
- * Few leak paths, high sealing class

G90 Series Quick Connector Features

1. Lever drive

Leverage reduces the operating force required and lowers operator load.

2. No seal required

Sealing uses the internal seal of the female fuel port, so there are no consumable parts and maintenance cost is zero.

3. High sealing class

Only one sealing point inside the sealing channel makes helium testing easy.

4. 360° rotating inlet (optional)

The inlet port rotates freely, eliminating tangled air lines

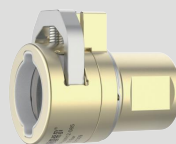
Selected Models



G90L Series



G90R Series



G90SP Series



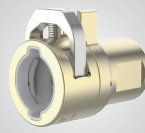
G90SPR Series

G90 Lever-Type Connector

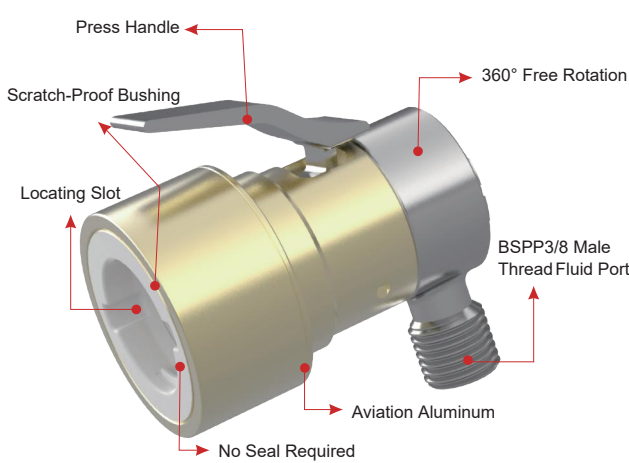
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G90 Quick Connector Advantages and Features

 Two operating modes: Handle operation or push-button operation	 Optional orientation: Straight-through or side inlet options, flexibly configured to suit the site	 Damage-free connection: A PEEK insert design and the polymer piston nesting ensure damage-free connection to aluminium or plastic VDA structures	 Mini body: The miniaturised body suits situations with positional interference and offers broad adaptability	 Adapter function: G90SP / G90SPR offer various Straight-through or side-exit adapters to other fitting types, including flanged tubes, J2044 and even threaded fittings
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G90 Quick Connector Specifications



Max. Op. Pressure	Vacuum to 10 Bar
Sealing Range	10mm~56mm
Flow Port	BSPP1/8, BSPP1/4, BSPP3/8, BSPP1/2
Material	Aluminum, Stainless, Nylon
Main Seal	NBR
Inner Seal	NBR
Operating Temp.	-20 °C to +120 °C

G90 Operation Demo






1. Align the quick connector with the female part

2. Insert to form the seal

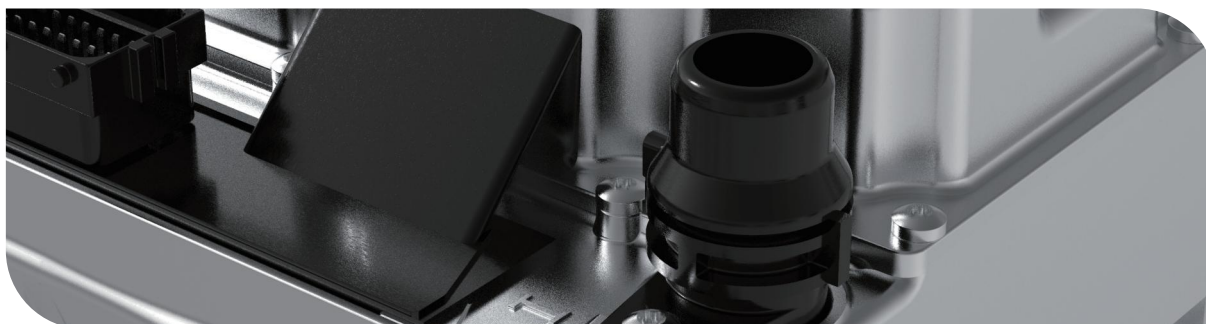
3. Press the side handle to pull it out easily

G90 Lever-Type Connector

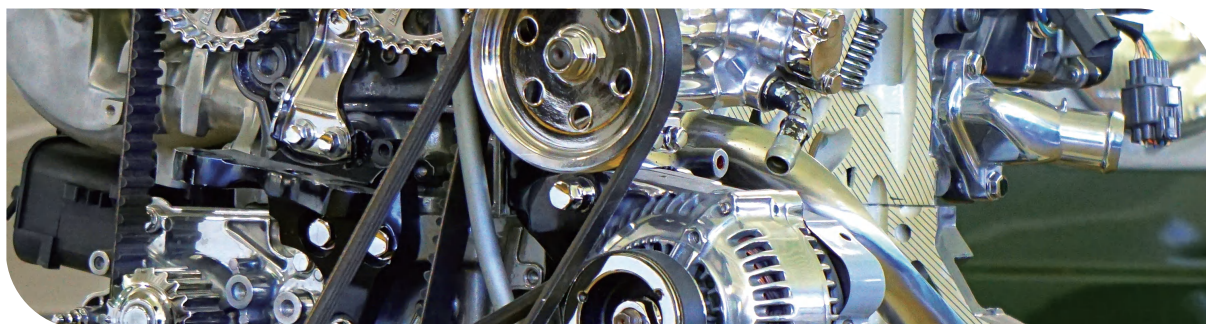
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Application Cases



New Energy Electronic Control Cooling System



Engine Cooling System

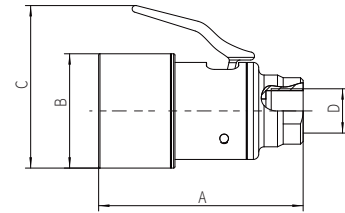
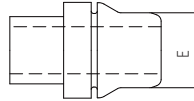


Engine Fuel System

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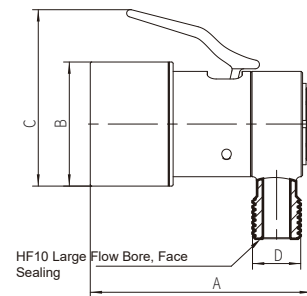
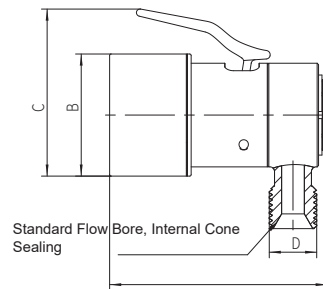
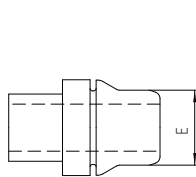
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G90L Quick Connector (Straight-Through) - VDA Standard Male Port

Model	Dim. A	Body No.	Dim. B	Dim. C	Dim. D	Connector Dim. E	Max. Pressure	Material	Seal Material	Seal No.
G90L-NW6	75	90NW1	37	58	BSPP1/4"	10.4	10Bar	Aluminum	NBR	SG90L-NW6
G90L-NW8	75	90NW1	37	58		12.4				SG90L-NW8
G90L-NW12	77	90NW2	43	61	BSPP3/8"	16.3				SG90L-NW12
G90L-NW16	79	90NW3	49	64		22.3				SG90L-NW16
G90L-NW18	81	90NW4	53	66		23.8				SG90L-NW18
G90L-NW20	81	90NW4	53	66		26.3				SG90L-NW20
G90L Quick Connector (Damage-Free Straight-Through) - VDA Standard Male Tube										
G90LP-NW12	77	90NW2	43	61	BSPP3/8"	16.3	10Bar	Aluminum	NBR	SG90L-NW12
G90LP-NW16	79	90NW3	49	64		22.3				SG90L-NW16



G90R Quick Connector (L Type) - VDA Standard Male Port

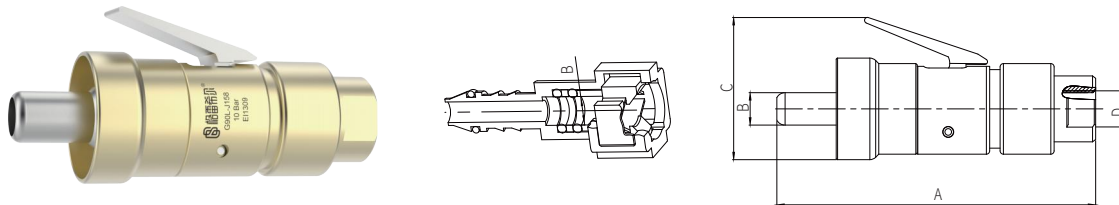
Model	Dim. A	Body No.	Dim. B	Dim. C	Dim. D	Connector Dim. E	Max. Pressure	Material	Seal Material	Seal No.
G90R-NW12	77	90NW2	43	61	BSPP3/8"	16.3	10Bar	Aluminum	NBR	SG90R-NW12
G90R-NW16	79	90NW3	49	64		22.3				SG90R-NW16
G90R-NW12HF10	77	90NW2	43	61		16.3				SG90R-NW12
G90R-NW16HF10	79	90NW3	49	64		22.3				SG90R-NW16

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

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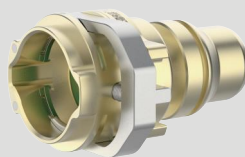
G90L Quick Connector - J2044 Standard Female

Model	Dim. A	Body No.	Dim. B	Dim. C	Fluid Port D	Female Dim.B	Max. Pressure	Material	Seal No.
G90L-J063	116	90J1	Φ6.3	52	BSPP1/4"	6.3	10Bar	Aluminum	SG90L-J063
G90L-J079	116	90J1	Φ7.9	52	BSPP1/4"	7.9			SG90L-J079
G90L-J095	116	90J1	Φ9.5	52	BSPP1/4"	9.5			SG90L-J095
G90L-J099	116	90J1	Φ9.9	52	BSPP1/4"	9.9			SG90L-J099
G90L-J110	116	90J1	Φ11.0	52	BSPP1/4"	11.0			SG90L-J110
G90L-J118	116	90J1	Φ11.8	52	BSPP1/4"	11.8			SG90L-J118
G90L-J126	116	90J2	Φ12.6	55	BSPP3/8"	12.6			SG90L-J126
G90L-J158	116	90J2	Φ15.8	55	BSPP3/8"	15.8			SG90L-J158
G90L-J189	116	90J2	Φ18.9	55	BSPP3/8"	18.9			SG90L-J189

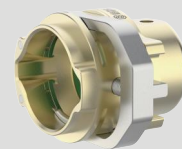
The G90 series offers extensive customisation, including J2044 / VDA and various specific functions. Some examples we have produced are shown below for reference.



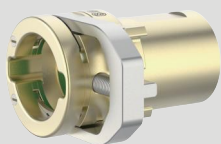
G90S-M5-HF14



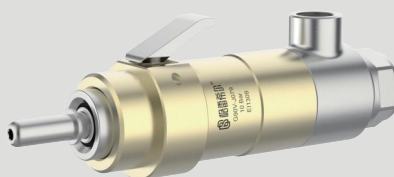
G90S-NW16-TNW16



G90S-NW16-LM5



G90S-NW12OD165-085



G90V-J079



G90L-J079