

Quick seal connector

For pressure-tight connections in seconds
to threads , tubes , beads , etc.





01 **Company
Introduction**
ABOUT US



Plus (Guangzhou) Intelligent Technology Co., Ltd.

The company was established in 2018, focusing on the field of sealing testing, and is an enterprise integrating technology development, production and sales.

High-tech enterprise. With years of technical accumulation, we have provided hundreds of sealing test solutions for customers in various fields.

Cases and testing equipment. The company's products are widely used
Widely used .





High-tech enterprise

11 utility model patents

3 trademarks



 EMC TEST REPORT	
Report Reference No.	B-E2404C1096
Client ID.	CC1209
Report Query.	
Compiled by (position-printed name+signature).....	Prepared by Sophia jiang 
Supervised by (position-printed name+signature).....	Checked by Austin zhong 
Approved by (position-printed name+signature).....	Approved by Martin wang 
Date of issue.	2024-04-10
Date of Test.	2024-04-01 to 2024-04-10
Testing Laboratory Name.	Beide (Shenzhen) Product Service Limited
Address.	6F, Bldg F, Huarui 1st Ind Zone, Xixiang, Bao'an Dist, Shenzhen, China
Applicant's name.	Pius (Guangzhou) Intelligent Technology Co., Ltd
Address.	Room 315, Office Building A1, No. 34 Xinhai North Road, Yongning Street, Zengcheng District, Guangzhou
Test specification.	EN IEC 61326-1:2021 EN IEC 61000-3-2:2019+A1:2021 EN 61000-3-3:2013+A1:2019+A2:2021
Standard.	
The device described above is tested by Beide(Shenzhen) Product Service Limited to determine the maximum emission level emanating from the device, the severe levels which the device can endure and EUT's performance criterion. The test results are contained in this test report. Beide(Shenzhen)Product Service Limited is assumed of full responsibility for the accuracy and completeness of these tests. This report applies to above tested sample only and shall not be reproduced in part without written approval of Beide (Shenzhen) Product Service Limited.	
Note: P=PASS, F=Fail, N/A= Not Applicable	
Test item description.	Air leakage tester
Manufacturer.	Pius (Guangzhou) Intelligent Technology Co., Ltd
Trade Mark.	/
Model/type reference.	X530
List Model.	DS30, X550A, X330, X630, D630, X830, X730, P520, D300, D100, NH8000
Rating.	AC100-240V, 50/60Hz, 170W
Result.	PASS

Beide (Shenzhen) Product Service Limited
Tel: +86755-2748494
Email: sales@beide.com
Report No. B-E2404C1096
Page 1 of 6

Test Report

CE certificate number: M.2024.206.C99088



car



New Energy



Medical



Consumer Electronics



Home Appliances

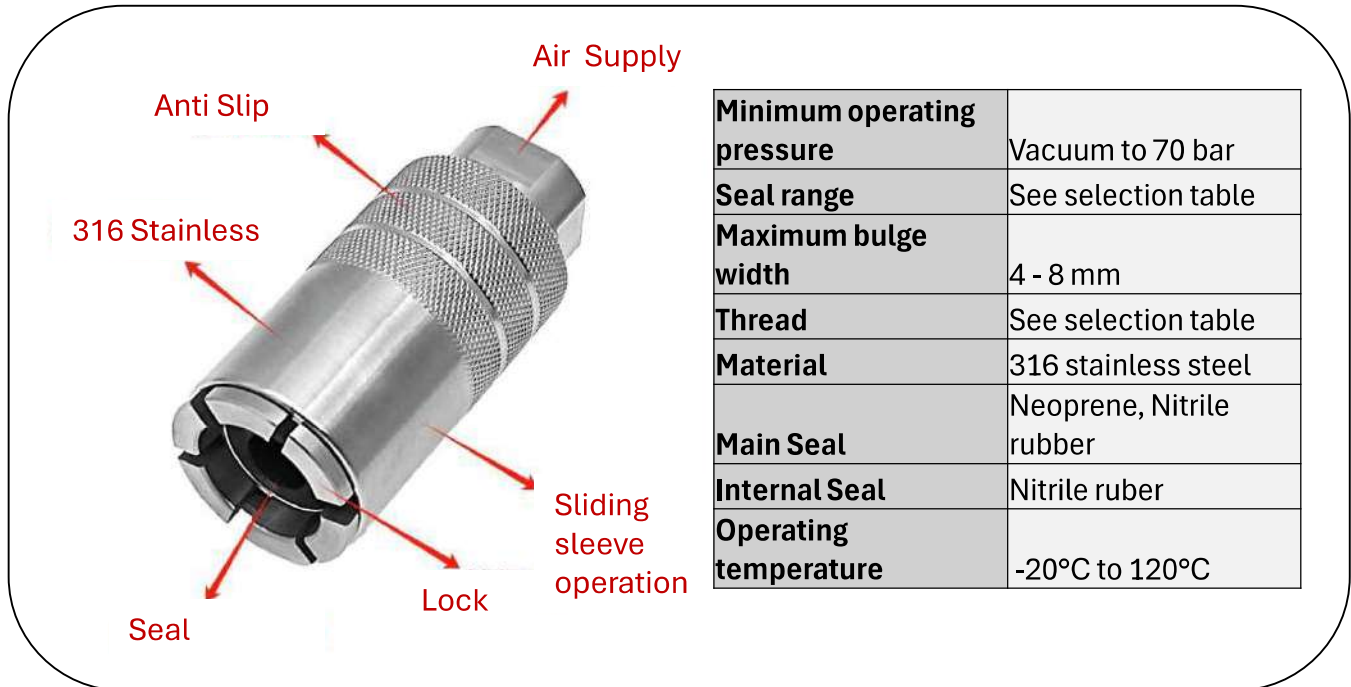
Involved industries

Five major areas



02 Product Introduction

PL-A Series



External card sliding sleeve quick seal connector

Applies to:

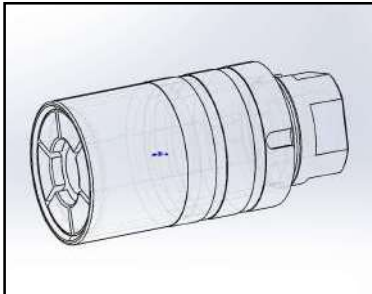
New energy battery water cooling plate test

Engine assembly test

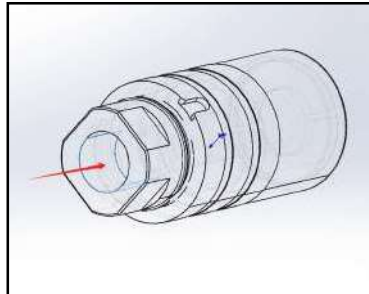
Engine cooling water channel test



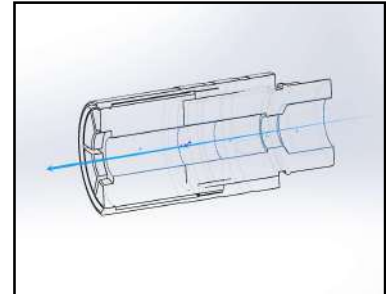
Advantages and features of



External clamping claws lock, directly grasp the tube end boss, and the end face seal is stable



Standard fluid threaded holes, can be arbitrarily connected, accessories are easy to purchase

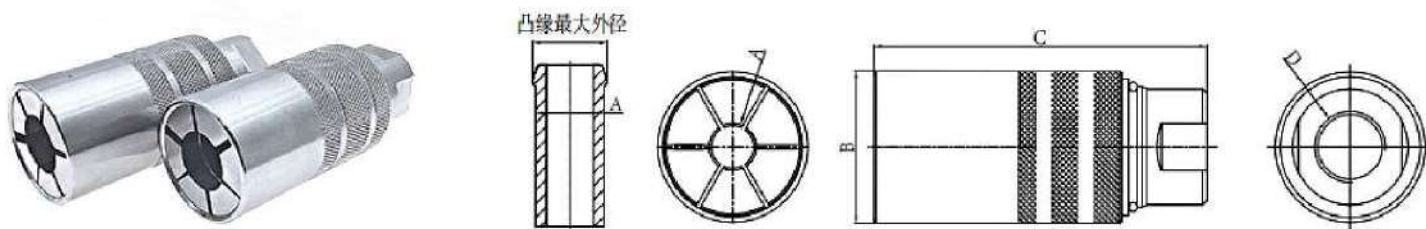


Straight-through design reduces flow loss and ensures test accuracy

Some models display



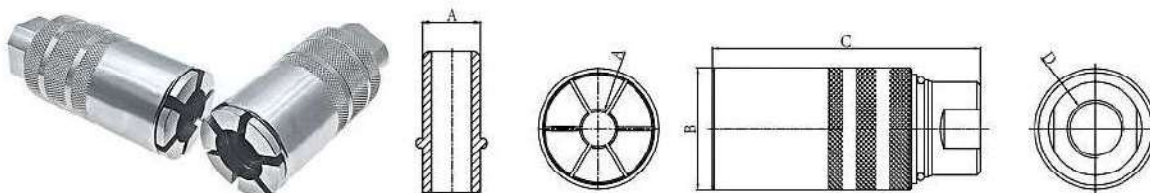
PL-A Series



Flange pipe - selection table

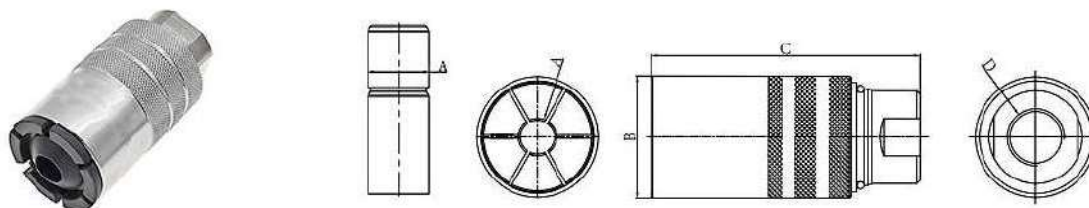
model	Size A	Size B	Size C	Size D	Maximum pressure	Main material	Sealing ring material	Seal ring model
PL -A2-005	5	25	75	G1/8	10Bar	316 Stainless Steel	Nitrile rubber	PL -A2-005-M
PL -A2-006	6				10Bar	316 Stainless Steel	Nitrile rubber	PL -A2-006-M
PL -A2-007	7				10Bar	316 Stainless Steel	Nitrile rubber	PL -A2-007-M
PL -A2-008	8				10Bar	316 Stainless Steel	Nitrile rubber	PL -A2-008-M
PL -A2-009	9				10Bar	316 Stainless Steel	Nitrile rubber	PL -A2-009-M
PL -A2-010	10				10Bar	316 Stainless Steel	Nitrile rubber	PL -A2-010-M
PL -A3-011	11	30	75	G1/4	10Bar	316 Stainless Steel	Nitrile rubber	PL -A3-011-M
PL -A3-012	12				10Bar	316 Stainless Steel	Nitrile rubber	PL -A3-012-M
PL -A3-013	13				10Bar	316 Stainless Steel	Nitrile rubber	PL -A3-013-M
PL -A4-014	14	35	75	G3/8	10Bar	316 Stainless Steel	Nitrile rubber	PL -A4-014-M
PL -A4-015	15				10Bar	316 Stainless Steel	Nitrile rubber	PL -A4-015-M
PL -A4-016	16				10Bar	316 Stainless Steel	Nitrile rubber	PL -A4-016-M
PL -A4-017	17				10Bar	316 Stainless Steel	Nitrile rubber	PL -A4-017-M
PL -A4-018	18				10Bar	316 Stainless Steel	Nitrile rubber	PL -A4-018-M
PL -A4-019	19				10Bar	316 Stainless Steel	Nitrile rubber	PL -A4-019-M
PL -A4-020	20				10Bar	316 Stainless Steel	Nitrile rubber	PL -A4-020-M
PL -A5-021	21	40	79	G1/2	10Bar	316 Stainless Steel	Nitrile rubber	PL -A5-021-M
PL -A5-022	22				10Bar	316 Stainless Steel	Nitrile rubber	PL -A5-022-M
PL -A5-023	23				10Bar	316 Stainless Steel	Nitrile rubber	PL -A5-023-M
PL -A5-024	24				10Bar	316 Stainless Steel	Nitrile rubber	PL -A5-024-M
PL -A5-025	25				10Bar	316 Stainless Steel	Nitrile rubber	PL -A5-025-M
PL -A6-026	26	45	90	G3/4	10Bar	316 Stainless Steel	Nitrile rubber	PL -A6-026-M
PL -A6-027	27				10Bar	316 Stainless Steel	Nitrile rubber	PL -A6-027-M
PL -A6-028	28				10Bar	316 Stainless Steel	Nitrile rubber	PL -A6-028-M
PL -A6-029	29				10Bar	316 Stainless Steel	Nitrile rubber	PL -A6-029-M
PL -A6-030	30				10Bar	316 Stainless Steel	Nitrile rubber	PL -A6-030-M
PL -A7-031	31	50	90	G3/4	10Bar	316 Stainless Steel	Nitrile rubber	PL -A6-031-M
PL -A7-032	32				10Bar	316 Stainless Steel	Nitrile rubber	PL -A6-032-M
PL -A7-033	33				10Bar	316 Stainless Steel	Nitrile rubber	PL -A7-033-M
PL -A7-034	34				10Bar	316 Stainless Steel	Nitrile rubber	PL -A7-034-M
PL -A7-035	35				10Bar	316 Stainless Steel	Nitrile rubber	PL -A7-035-M
PL -A7-036	36				10Bar	316 Stainless Steel	Nitrile rubber	PL -A7-036-M
PL -A7-037	37				10Bar	316 Stainless Steel	Nitrile rubber	PL -A7-037-M
PL -A8-038	38	55	90	G3/4	10Bar	316 Stainless Steel	Nitrile rubber	PL -A8-038-M
PL -A8-039	39				10Bar	316 Stainless Steel	Nitrile rubber	PL -A8-039-M
PL -A8-040	40				10Bar	316 Stainless Steel	Nitrile rubber	PL -A8-040-M

PL-A Series



Fuel rail pipe - in accordance with J2044 standard selection table

model	Size A	Size B	Size C	Size D	Maximum pressure	Main material	Sealing ring material	Seal ring model
PL -B2-0630	6.30 ±0.06	25	75	G1/8	10Bar	316 Stainless Steel	Neoprene	PL -B2-0630-M
PL -B2-0789	7.89 ±0.06				10Bar	316 Stainless Steel	Neoprene	PL -B2-0789-M
PL -B2-0949	9.49 ±0.06				10Bar	316 Stainless Steel	Neoprene	PL -B2-0949-M
PL -B2-0989	9.89 ±0.06				10Bar	316 Stainless Steel	Neoprene	PL -B2-0989-M
PL -B3-1105	11.05 ±0.10	30	75	G1/4	10Bar	316 Stainless Steel	Neoprene	PL -B3-1105-M
PL -B3-1180	11.80 ±0.10				10Bar	316 Stainless Steel	Neoprene	PL -B3-1180-M
PL -B3-1261	12.61 ±0.10				10Bar	316 Stainless Steel	Neoprene	PL -B3-1261-M
PL -B4-1582	15.82 ±0.10	35	78	G3/8	10Bar	316 Stainless Steel	Neoprene	PL -B4-1582-M
PL -B5-1890	18.90 ±0.10	40	87	G1/2	10Bar	316 Stainless Steel	Neoprene	PL -B5-1890-M
PL -B6-2270	22.70 ±0.10	46	90	G3/4	10Bar	316 Stainless Steel	Neoprene	PL -B6-2270-M
PL -B6-2550	25.50 ±0.10				10Bar	316 Stainless Steel	Neoprene	PL -B6-2550-M
PL -B7-2842	28.42 ±0.10	50	90	G3/4	10Bar	316 Stainless Steel	Neoprene	PL -B7-2842-M



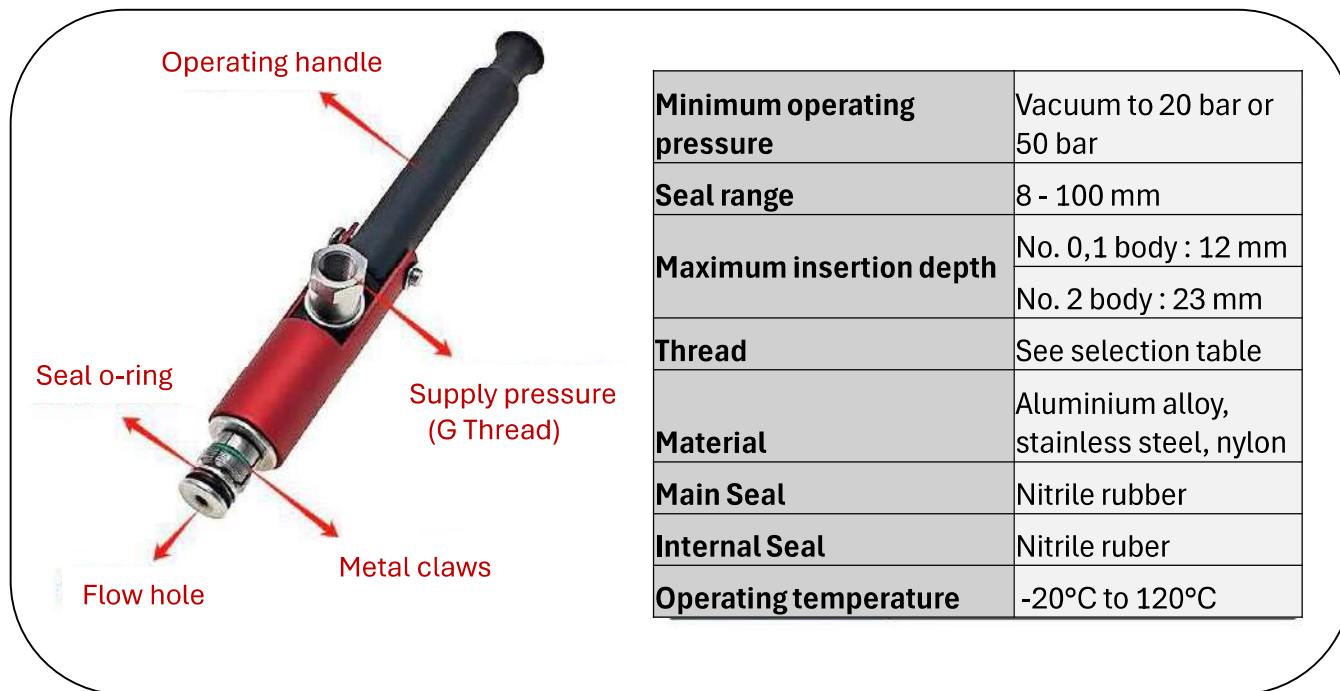
Liquid cooling plate CQC nozzle - selection table

model	Size A	Size B	Size C	Size D	Maximum pressure	Main material	Sealing ring material	Sealing ring model
PL -A3-CQC14	14.00 ±0.10	30	75	G1/4	10Bar	316 Stainless Steel	Neoprene	PL -A3-CQC14-M
PL -A4-CQC18	18.00 ±0.10	35	78	G3/8	10Bar	316 Stainless Steel	Neoprene	PL -A4-CQC18-M
PL -A5-CQC20	20.00 ±0.10	40	78	G1/2	10Bar	316 Stainless Steel	Neoprene	PL -A4-CQC20-M

Note:

- Operation method: It adopts the external card operation method of sliding sleeve. Just align the pipe mouth and push the sliding sleeve to complete the quick sealing connection; after the test is completed, lightly pull the sliding sleeve to disconnect.
- Pressure value: The default pressure value of standard products is 10Bar . If you need a high pressure test of 10-50Bar , please contact us.
- Sealing ring: The sealing surface is the end face or the side face. A conical special-shaped ring or an O -ring is used according to the structure of the faucet. The service life depends on the working conditions.
- Tail fluid hole: Add an adapter to use as the test source end, add a plugging cap to use as the blocking end.
- Space interference: If the joint cannot be used due to interference, please contact us for customization.
- Process requirements: If anti-scratch is required, the claws can be adjusted to engineering plastic material, and the service life depends on the working conditions.

PL-C Series



Internal expansion claw type quick seal connector

Applies to:

New energy battery water cooling plate test

Air conditioning radiator test

Engine cooling water channel test



直通



渐扩



扩口



翻边



倒刺



成型



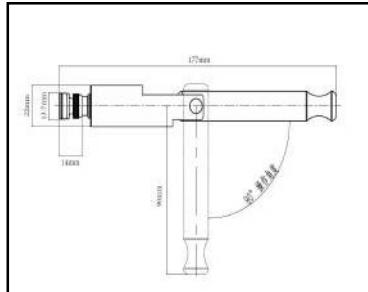
渐缩



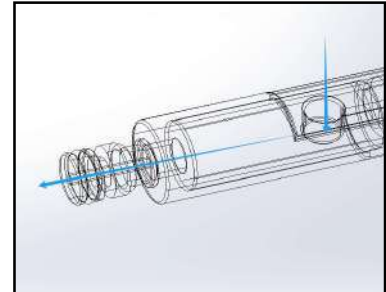
Advantages and features of



The claws are locked to firmly grasp the inner wall of the pipe and improve the pressure resistance value



Aviation aluminum and nylon handles make operation easy and reduce user fatigue

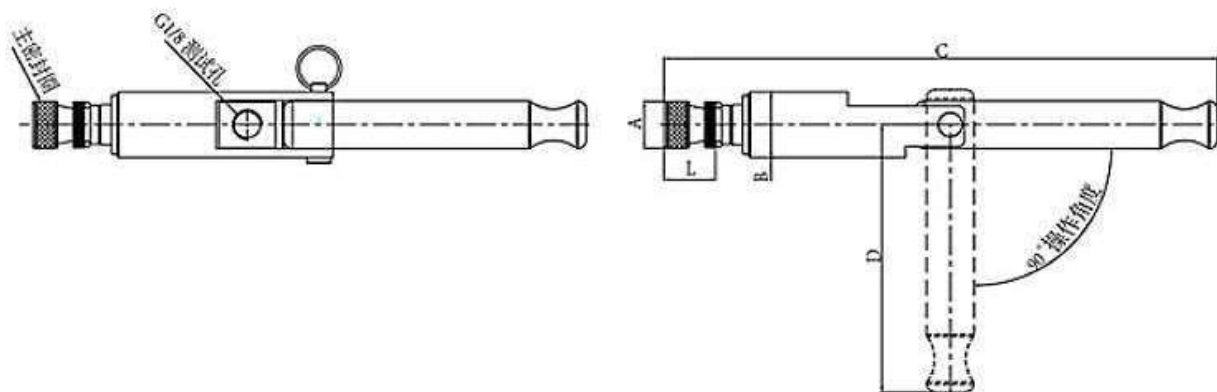


Standard threaded fluid holes and O - rings, commonly used in China, related accessories are easy to purchase

Some models display



PL-C Series



Inner hole size - selection table

Product Model	Sealing range ±0.25mm	Maximum pressure	Flow rate	Size B	Size C	Size D	Insertion depth L	Main material	Sealing ring material	Sealing ring model
PL -C0-010	10	10Bar	2.8mm	22	178	90	12	Aviation Aluminum	Nitrile rubber	PL -C0-010-M
PL -C1-011	11									PL -C1-011-M
PL -C1-012	12									PL -C1-012-M
PL -C1-013	13									PL -C1-013-M
PL -C1-014	14									PL -C1-014-M
PL -C2-015	15									PL -C2-015-M
PL -C2-016	16		4.0mm				14.5			PL -C2-016-M
PL -C2-017	17									PL -C2-017-M
PL -C2-018	18									PL -C2-018-M
PL -C2-019	19									PL -C2-019-M
PL -C2-020	20									PL -C2-020-M
PL -C2-021	21									PL -C2-021-M
PL -C2-022	22									PL -C2-022-M

Can be customized according to site conditions



PL-C Series — Customized



Minimum operating pressure	Vacuum to 7 bar
Seal range	8 - 100 mm
Maximum insertion depth	No. 0,1 body : 12 mm No. 2 body : 23 mm
Thread	See selection table
Material	Aluminium alloy, stainless steel, nylon
Main Seal	Nitrile rubber
Internal Seal	Nitrile rubber
Operating temperature	-20°C to 120°C

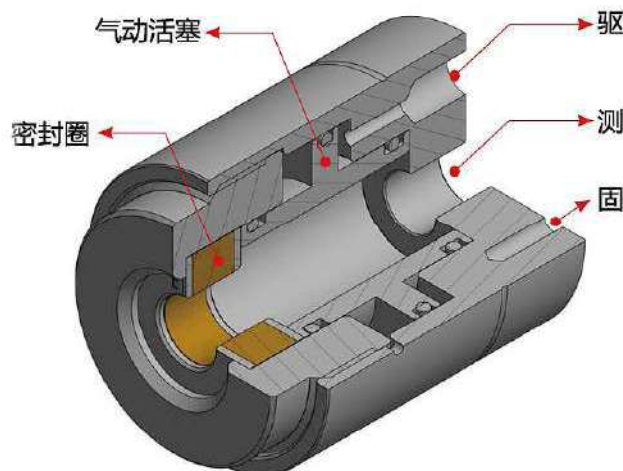


Minimum operating pressure	Vacuum to 7 bar
Seal range	8 - 100 mm
Maximum insertion depth	No. 0,1 body : 12 mm No. 2 body : 23 mm
Thread	See selection table
Material	Aluminium alloy, stainless steel, nylon
Main Seal	Nitrile rubber
Internal Seal	Nitrile rubber
Operating temperature	-20°C to 120°C

Note:

- Operation method: It adopts the handle bending operation method. Just align the pipe mouth and bend the handle to complete the quick sealing connection; after the test is completed, fold back the handle and take it out.
- Pressure value: The default pressure value of standard products is 7Bar . If you need a high pressure test of 10-50Bar , please contact us.
- O -ring is used depending on the working conditions . The service life depends on the working conditions.
- Fluid hole: Add an adapter to use as the test source end, add a plugging cap to use as the blocking end.

PL-D Series



Minimum operating pressure	Vacuum to 35 bar
Seal range	0.8 - 80 mm
Maximum insertion depth	No. 0,1 body : 15 mm No. 2 body : 30 mm
Thread	See selection table
Material	Aluminium alloy, stainless steel, nylon
Main Seal	Neoprene/Silicone Ruber
Internal Seal	Nitrile ruber
Pilot Pressure	4 - 6 bar
Operating temperature	-20°C to 120°C

Pneumatic external quick seal connector

1. Pneumatic drive

Intake air through the tail drive hole to push the built-in piston to squeeze the sealing ring to achieve expansion sealing

2. Automated operation

Through the two fixing holes at the tail, the connector can be fixed on any actuator to achieve automated operation, accurate and reliable

3. test hole

Straight-through design has no impact on flow. G thread test hole, in line with domestic standards

4. No damage operation

The sealing ring clamps the contact and will not cause any damage to the surface of the test piece.

waterway testing
turbocharger
heat sink
plastic port
fuel pump



carbon canister



medical catheter



Motor controller

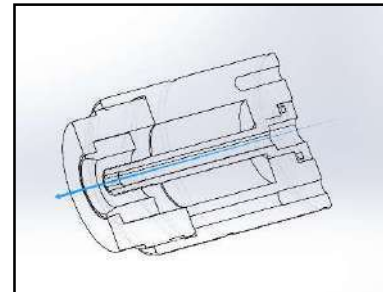
Advantages and features of PL-D Series



Air pressure driven, can firmly grasp the outer wall of the pipe without damage, automatic operation



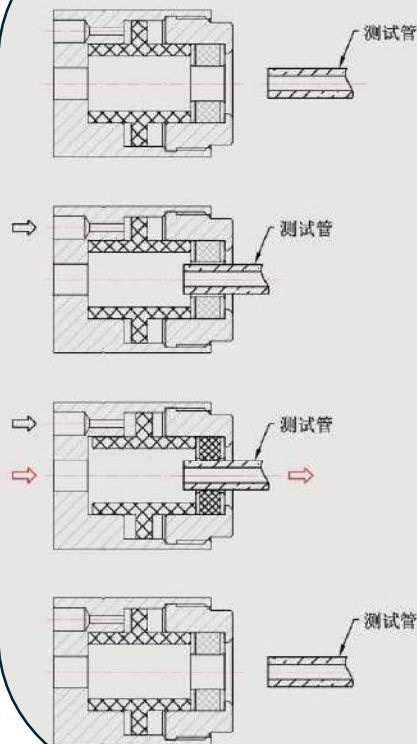
The sealing ring material can be customized for customers with different working conditions



Straight-through design, can be customized according to customer working conditions

Instructions

Make connections simple and reliable



First step:

Place the test tube into the front test port of the connector

Step 2:

Air is supplied from the driving air hole. At this time, the sealing ring is squeezed and expands, and then closes to the outer wall of the test tube to form a seal.

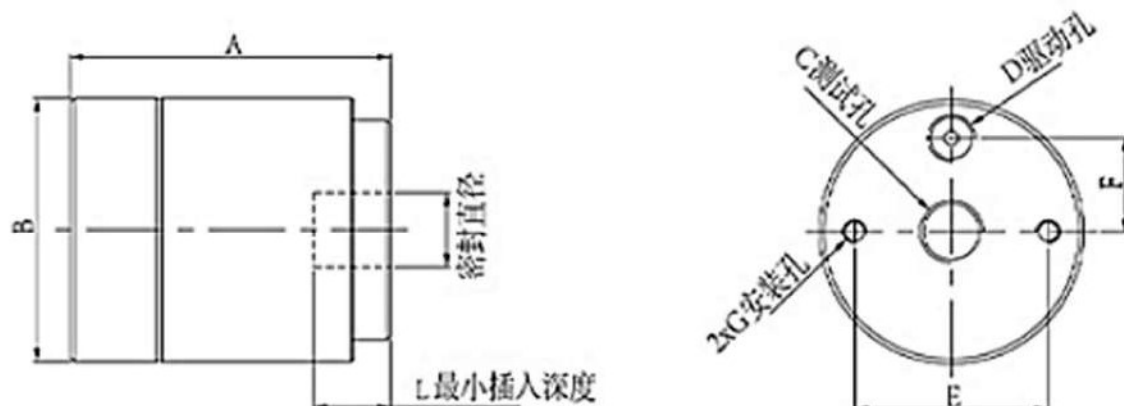
Step 3:

a. When the seal is formed, fill the test hole with test medium (such as compressed air, test fluid, etc.)
b. After the test is completed, the test medium is evacuated and the test pressure returns to normal pressure. At this time, the driving air pressure is evacuated, the sealing ring is no longer under pressure, the sealing connection is disconnected, and the joint can be removed.

Step 4:

When the above operation is completed, the test tube can be removed from the connector

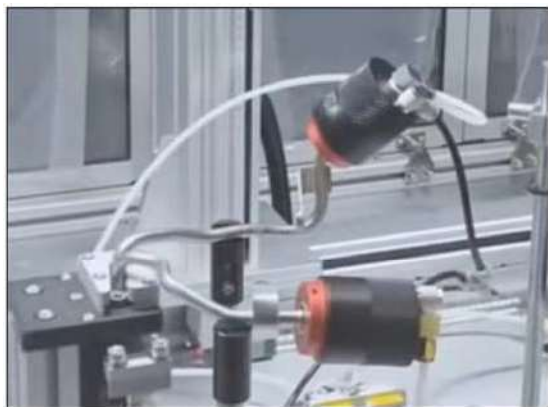
PL-D Series



Outer diameter size - selection table

Product Model	Sealing diameter	Size A	Size B	Size C	Size D	Dimension E	Size F	Size G	Size L	Main seal model
PL -D1-0007	0.8-1.3	52.4	38	G1/8	M5	28	13.8	M5	15	PL -D1-0007-M
PL -D1-0013	1.3-2.0									PL -D1-0013-M
PL -D1-0020	2.0-3.3									PL -D1-0020-M
PL -D1-0025	2.5-4.5									PL -D1-0025-M
PL -D1-0045	4.5-6.5									PL -D1-0045-M
PL -D1-0065	6.5-8.5									PL -D1-0065-M
PL -D1-0075	7.5-9.5									PL -D1-0075-M
PL -D1-0085	8.5-10.5									PL -D1-0085-M
PL -D1-0095	9.5-11.5									PL -D1-0095-M
PL -D1-0105	10.5-13.0									PL -D1-0105-M
PL -D2-1110	11.0-13.0	69.5	56.5	G1/4	G1/8	41.5	21.2	M5	15	PL -D2-1110-M
PL -D2-1130	13.0-15.0									PL -D2-1130-M
PL -D2-1150	15.0-17.0									PL -D2-1150-M
PL -D2-1170	17.0-19.0									PL -D2-1170-M
PL -D2-1190	19.0-21.0									PL -D2-1190-M
PL -D3-2200	20.0-22.0	88.7	79	G1/2	G1/8	63.5	31.7	M6	30	PL -D3-2200-M
PL -D3-2220	22.0-24.0									PL -D3-2220-M
PL -D3-2240	24.0-26.0									PL -D3-2240-M
PL -D3-2260	26.0-28.0									PL -D3-2260-M
PL -D3-2280	28.0-30.0									PL -D3-2280-M
PL -D3-2300	30.0-32.0									PL -D3-2300-M
PL -D3-2320	32.0-34.0									PL -D3-2320-M
PL -D3-2340	34.0-36.0									PL -D3-2340-M
PL -D3-2350	36.0-38.0									PL -D3-2350-M

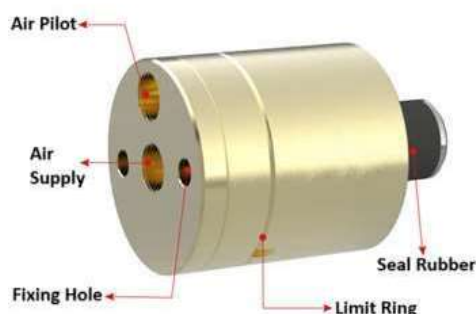
PL-D Series — Customized



Note:

- PL-D series quick connector non-standard customization includes: larger outer diameter, extended neck, shorter sealing length. Smaller body outer diameter, etc.
- PL-D series quick connectors include: sealing various hoses, non-circular shapes, with bayonet mechanism, multi-connector combination, etc.
- The sealing ring material can be customized
- Driving source: non-automatic platform operation, can add a manual slide valve at the driving port, only used in low-pressure test state, such as high-pressure test, please consult us.
- Fixing hole: The position of the tail fixing hole can be adjusted according to customer needs. Try to follow our standard location.

PL-E Series



Maximum Operating Pressure	From Vacuum to 8 Bar
Sealing Range	8.5 mm - 44 mm
Minimum Insertion Depth	No. 1, 2 Body : 15 mm No. 3,4 Body : 25 mm
Thread Interface	G1/8, G3/8
Main Material	Aluminium Alloy
Main Seal	Neoprene/ Silicone Rubber
Internal Seal	Nitrile Rubber
Pilot Pressure	4-6 Bar
Operating Temperature	-20°C to 120°C

Pneumatic internal expansion type (Quick Seal connector)

1. Pneumatic drive

Intake air through the tail drive to push the built-in piston and squeeze the sealing ring to achieve internal expansion sealing .

2. Automated operation

Through the two fixing holes at the tail, the connector can be fixed on any actuator to achieve automated operation, accurate and reliable.

3. Straight-through test hole

Reduce intermediate assemblies, improve sealing and ensure flow.

4. Limit ring

Built-in limit ring limits the maximum displacement of the piston and prevents the sealing ring from exploding due to overload.

Water way
system
Turbocharger
Heat sink
Plastic port
Fuel pump



Motor waterway



Engine assembly

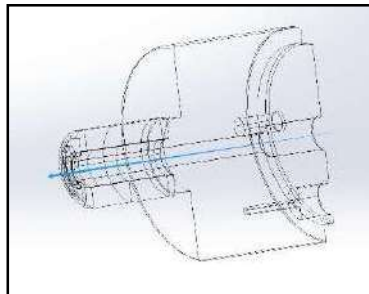


Motor controller

PL-E Series : Advantages and features



Pneumatic driven, it can firmly grasp the inner wall of pipe fittings without damage and operate automatically.



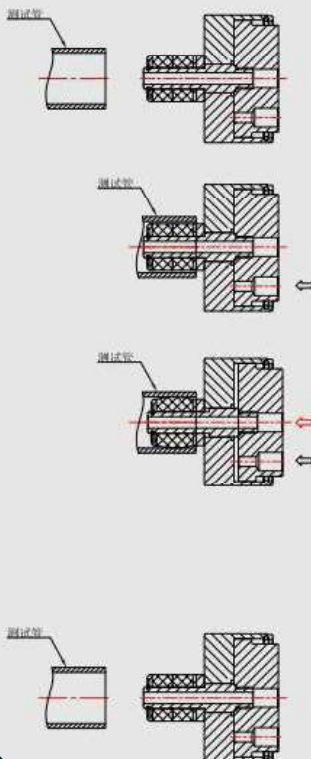
Straight through design reduces flow loss and improves test stability.



The sealing ring can be replaced quickly, maintenance is simple, and the service life can be extended.

Introduction for used

Make connections simple and reliable



First step :

Place the test tube into the front testport.

Step 2 :

Air is supplied from the pilot air hole. At this time, the sealing ring is squeezed and expands, and then closes to the inner wall, of the measuring tube to form a seal.

Step 3 :

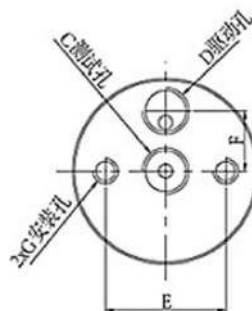
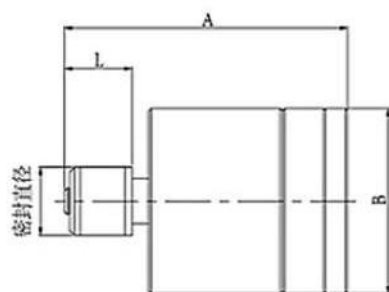
a. When the seal is formed, fill the test hole with test medium (such as compressed air, the test fluid, etc.)

b. After the test is completed. The test medium is evacuated and the test pressure returns to normal pressure. At this time, the driving air pressure is evacuated, the sealing ring is no longer under pressure. The sealing connection is disconnected, and the joint can be removed.

Step 4 :

When the above operation is completed, the test tube can be removed from the connector.

PL-E Series



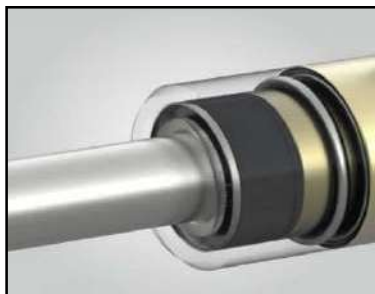
Inner diameter – Selection Table

Product Model	Seal Diameter	Size:A	Size:B	Size:C	Size:D	Size:E	Size:F	Size:G	Size:L	Main Seal Model
PL-E0-0080	8.5-9.5	50.4	33.5	M5	M5	20.3	10	M5	12.2	PL-E0-0080-M
PL-E0-0085	9.5-10.5									PL-E0-0085-M
PL-E1-1100	10.5-11.5	61.8	40	G1/8	G1/8	25.9	13	M6	14.5	PL-E1-1100-M
PL-E1-1110	11.5-12.5									PL-E1-1110-M
PL-E1-1120	12.5-13.5									PL-E1-1120-M
PL-E1-1130	13.5-14.5									PL-E1-1130-M
PL-E1-1140	14.5-15.5									PL-E1-1140-M
PL-E1-1150	15.5-17.0									PL-E1-1150-M
PL-E2-2160	17.0-18.0	61.8	40	G1/8	G1/8	25.9	13	M6	14.5	PL-E2-2160-M
PL-E2-2170	18.0-19.0									PL-E2-2170-M
PL-E2-2180	19.0-20.0									PL-E2-2180-M
PL-E2-2190	20.0-21.0									PL-E2-2190-M
PL-E2-2200	21.0-22.0									PL-E2-2200-M
PL-E2-2210	22.0-23.0									PL-E2-2210-M
PL-E3-3220	23.0-24.0	63.6	60	G1/8	G1/8	40.6	18.3	M6	24.5	PL-E3-3220-M
PL-E3-3230	24.0-26.0									PL-E3-3230-M
PL-E3-3240	25.0-26.0									PL-E3-3240-M
PL-E3-3250	26.0-27.0									PL-E3-3250-M
PL-E3-3260	27.0-28.0									PL-E3-3260-M
PL-E3-3270	28.0-29.0									PL-E3-3270-M
PL-E4-4280	29.0-30.0	63.6	60	G1/8	G1/8	40.6	18.3	M6	24.5	PL-E4-4280-M
PL-E4-4290	30.0-31.0									PL-E4-4290-M
PL-E4-4300	31.0-32.0									PL-E4-4300-M
PL-E4-4310	32.0-33.0									PL-E4-4310-M
PL-E4-4320	33.0-34.0									PL-E4-4320-M
PL-E4-4330	34.0-35.0									PL-E4-4330-M

Noted:

- Non-standard customization of PL-E series quick connectors includes : Lager outer dimeter neck,, better sealing length, thinner body outer diameter, ect.
- The non –standard customized nozzles of PL-E series quick connectors included : Sealing various hoses, complex shapes, multi-connector combinations, etc.

Advantages and features of PL-F Series



The sealing ring is locked tightly, without scratching the pipe fittings, and the material can be selected



Internal spring mechanism adjusts the sealing pressure and reduces the damage to the sealing ring



No tools are required to disassemble and replace the seal ring, making maintenance simple and convenient

Some models display

主体展示



Operation method display

操作演示

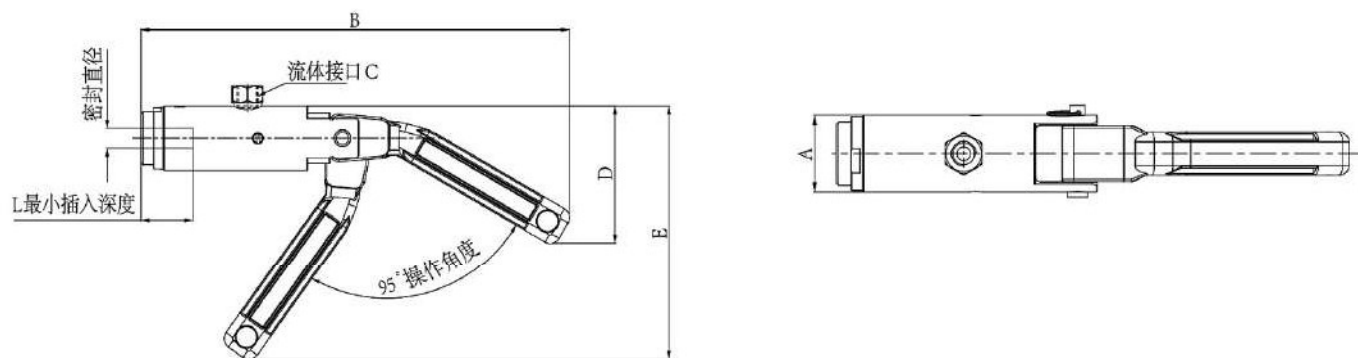


1. 将接头前端套入需要密封的管件



2. 折动把手，形成密封

PL-F Series



Outer diameter size - selection table

Product Model	Sealing diameter	Size A	Size B	Size C	Size D	Dimension E	Size F	Main seal model
PL -F1-0007	0.8-1.3	29.7	206.9	G1/8	65.7	124.4	15.4	PL -F1-0007-M
PL -F1-0013	1.3-2.0							PL -F1-0013-M
PL -F1-0020	2.0-3.3							PL -F1-0020-M
PL -F1-0025	2.5-4.5							PL -F1-0025-M
PL -F1-0045	4.5-6.5							PL -F1-0045-M
PL -F1-0065	6.5-8.5							PL -F1-0065-M
PL -F1-0075	7.5-9.5							PL -F1-0075-M
PL -F1-0085	8.5-10.5							PL -F1-0085-M
PL -F1-0095	9.5-11.5							PL -F1-0095-M
PL -F1-0105	10.5-13.0							PL -F1-0105-M
PL -F2-1110	11.0-13.0	37.5	214.3	G3/8	72.2	128.3	15.6	PL -F2-1110-M
PL -F2-1130	13.0-15.0							PL -F2-1130-M
PL -F2-1150	15.0-17.0							PL -F2-1150-M
PL -F2-1170	17.0-19.0							PL -F2-1170-M
PL -F2-1190	19.0-21.0							PL -F2-1190-M
PL -F2-1210	21.0-23.0							PL -F2-1210-M

Note:

- PL-F series quick connector non-standard customization includes: larger sealing size, extended neck, shorter connector length, etc.
- PL-F series quick connectors include: sealing various hoses, multi-connector combinations, etc.

PL-FH Series



Minimum operating pressure	Vacuum to 70 bar
Seal range	6 - 35 mm
Maximum insertion depth	25 mm
Thread	ZG1/8 or ZG1/4
Material	Aluminium alloy, Stainless steel, Nylon
Main Seal	Fluorine rubber
Internal Seal	Nitrile rubber
Operating temperature	-20°C to 120°C

High pressure outsourcing quick seal connector

Applies to:

Industrial pipe seal detection

Air conditioning radiator test

Engine cooling water channel test



Advantages and features of PL_FH



Metal claws lock, can firmly grasp the outside of the pipe, increase the test pressure



Internal spring mechanism adjusts the sealing pressure and reduces the damage to the sealing ring



Standard threaded fluid port, commonly used in China, easy to purchase adapters

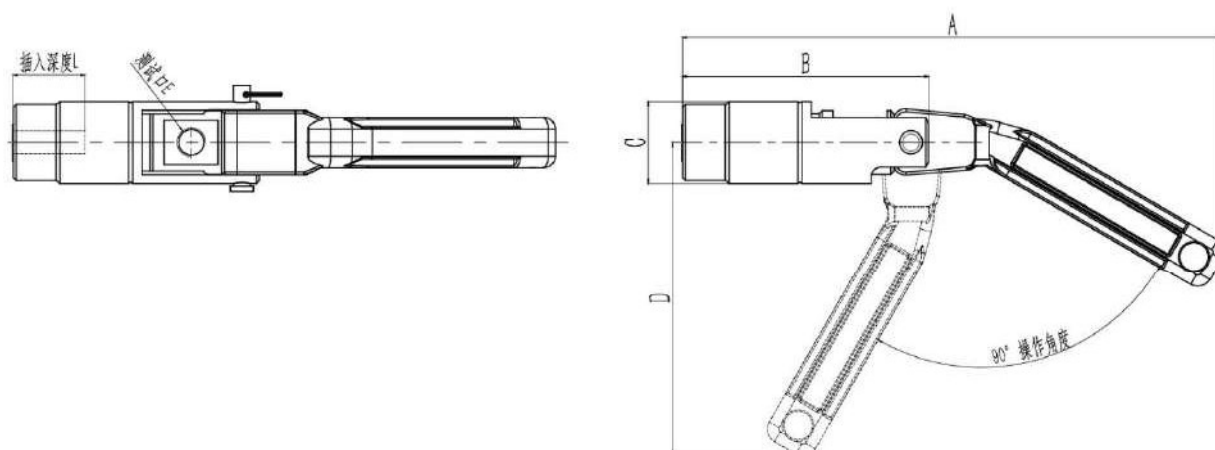
Some models display



Operation method display



PL-FH Series



Outer diameter size - selection table

Product Model	Sealing size (±0.25mm)	Maximum pressure	Flow diameter	Size A	Size B	Size C	Size D	Dimension E	Size L	Seal ring model
PL -FH-0060	6.00	70Bar	7	193	89	31	109.5	ZG1/8	25	PL -FH-0060-M
PL -FH-0063	6.35									PL -FH-0063-M
PL -FH-0079	7.92									PL -FH-0079-M
PL -FH-0080	8.00									PL -FH-0080-M
PL -FH-0095	9.52									PL -FH-0095-M
PL -FH-0100	10.00									PL -FH-0100-M
PL -FH-0120	12.00									PL -FH-0120-M
PL -FH-0127	12.70									PL -FH-0127-M
PL -FH-1140	14.00		10			40		ZG1/4		PL -FH-1140-M
PL -FH-1159	15.88									PL -FH-1159-M
PL -FH-1160	16.00									PL -FH-1160-M
PL -FH-1180	18.00									PL -FH-1180-M
PL -FH-1190	19.00									PL -FH-1190-M

Note:

- PL-FH series quick connectors includes: larger sealing size, longer neck, shorter overall length, etc.
- Safety design is taken into consideration when the product is first designed. Users are responsible for designing safety designs under the operating conditions during use. Good protective measures include safety ropes, protective nets, protective cages or special clamps.
- Guangzhou Plus can also provide or assist customers in identifying potential security threats.

PL-G Series



Minimum operating pressure	Vacuum to 3 bar
Seal range	10 - 34 mm
Maximum insertion depth	No. 1,2 body : 15 mm No. 3,4 body : 25 mm
Thread	See selection table
Material	Aluminium alloy
Main Seal	Neoprene
Internal Seal	Nitrile rubber
Operating temperature	-20°C to 120°C

Low pressure internal expansion quick seal connector

Application cases :

- Engine water channel
- Battery water cooling plate
- Energy pack package test
- Motor controller leak test



发动机



新能源电池PACK



电机控制器

直通



渐扩



扩口



翻边



倒刺



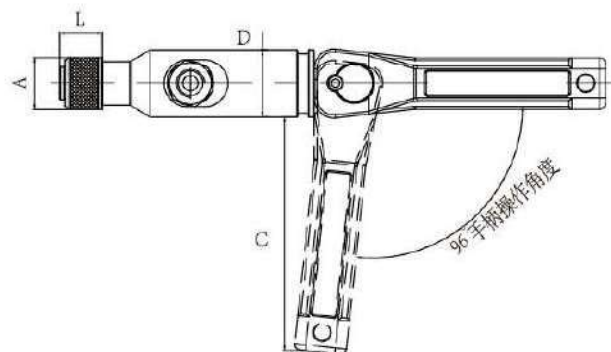
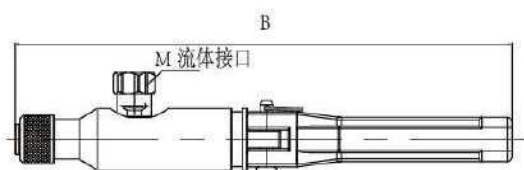
成型



渐缩



PL-G Series



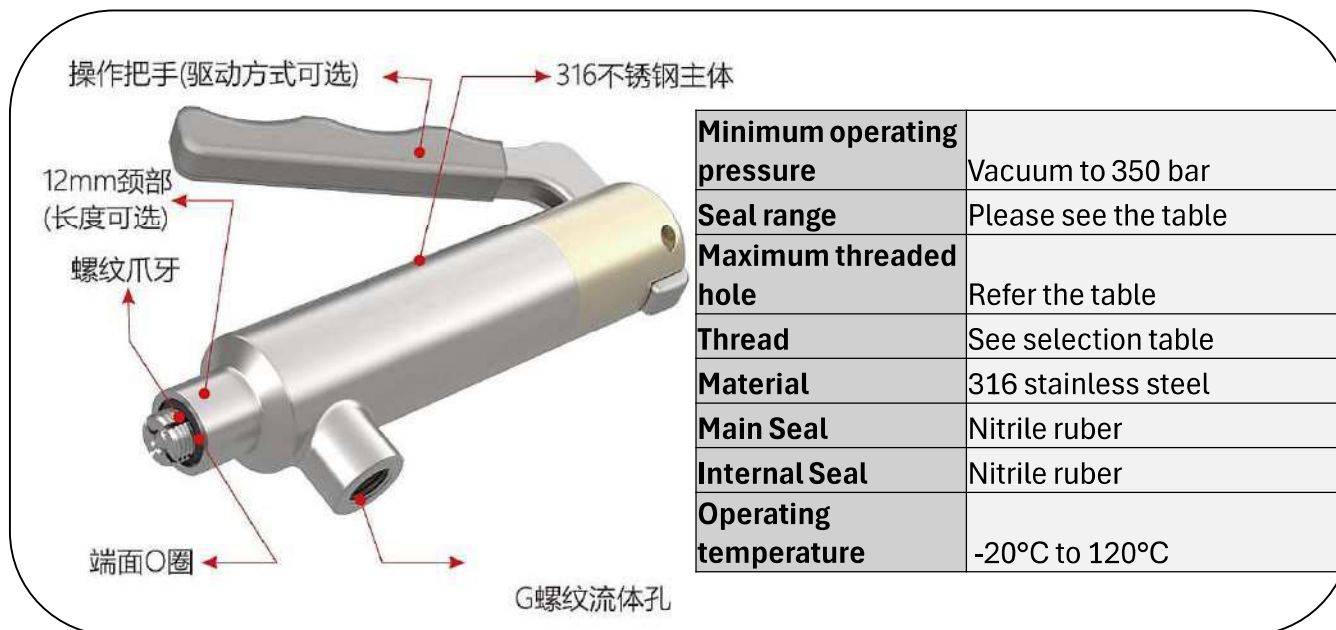
Inner hole size - selection table

Product Model	Seal size	Size B	Size C	Size D	Size L	Size M	Seal ring model
PL -G1-010	10.5-11.5	194	85	twenty four	14.7	G1/8	PL -G1-010-M
PL -G1-011	11.5-12.5						PL -G1-011-M
PL -G1-012	12.5-13.5						PL -G1-012-M
PL -G1-013	13.5-14.5						PL -G1-013-M
PL -G1-014	14.5-15.5						PL -G1-014-M
PL -G1-015	15.5-16.5						PL -G1-015-M
PL -G2-016	16.5-17.5	195	85	twenty four	15.3	G1/8	PL -G2-016-M
PL -G2-017	17.5-18.5						PL -G2-017-M
PL -G2-018	18.5-19.5						PL -G2-018-M
PL -G2-019	19.5-20.5						PL -G2-019-M
PL -G2-020	20.5-21.5						PL -G2-020-M
PL -G2-021	21.5-22.5						PL -G2-021-M
PL -G3-022	22.5-23.5	216	97	30	24.5	G1/8	PL -G3-022-M
PL -G3-023	23.5-24.5						PL -G3-023-M
PL -G3-024	24.5-25.5						PL -G3-024-M
PL -G3-025	25.5-26.5						PL -G3-025-M
PL -G3-026	26.5-27.5						PL -G3-026-M
PL -G3-027	27.5-28.5						PL -G3-027-M
PL -G4-028	28.5-29.5	217	97	30	25.3	G1/8	PL -G4-028-M
PL -G4-029	29.5-30.5						PL -G4-029-M
PL -G4-030	30.5-31.5						PL -G4-030-M
PL -G4-031	31.5-32.5						PL -G4-031-M
PL -G4-032	32.5-33.5						PL -G4-032-M
PL -G4-033	33.5-34.5						PL -G4-033-M

Note:

- PL-G series quick connector non-standard customization includes: larger sealing size, extended neck, overall shorter length, etc.
- PL-G series quick connectors include: sealing various hoses, complex shapes, multi-connector combinations, etc.

PL-HL Series



Threaded handle quick seal connector

1. Drive modularization

Provides three operating modes: pneumatic, button valve, and pressure rod to meet the requirements of various applications

2. O-ring seal

Simple and reliable, easy to replace, low maintenance cost, optional ring materials, suitable for different fluid applications

3. 316 stainless steel construction

Excellent mechanical properties, strong and wear-resistant, can greatly extend the service life of joints

4. Neck length optional

The necks of common models are available in three different lengths to meet the needs of position avoidance and prevent volume interference.

5. Maintain standardization

The internal structure is modular and can be replaced in one piece.
Easy maintenance



Advantages and features of PL-H



Metal claws lock, can firmly grasp the thread and increase the test pressure



Drive modularization to meet customers' manual and pneumatic operation requirements



The neck can be customized according to the customer's actual working conditions to avoid interference in the operating space.

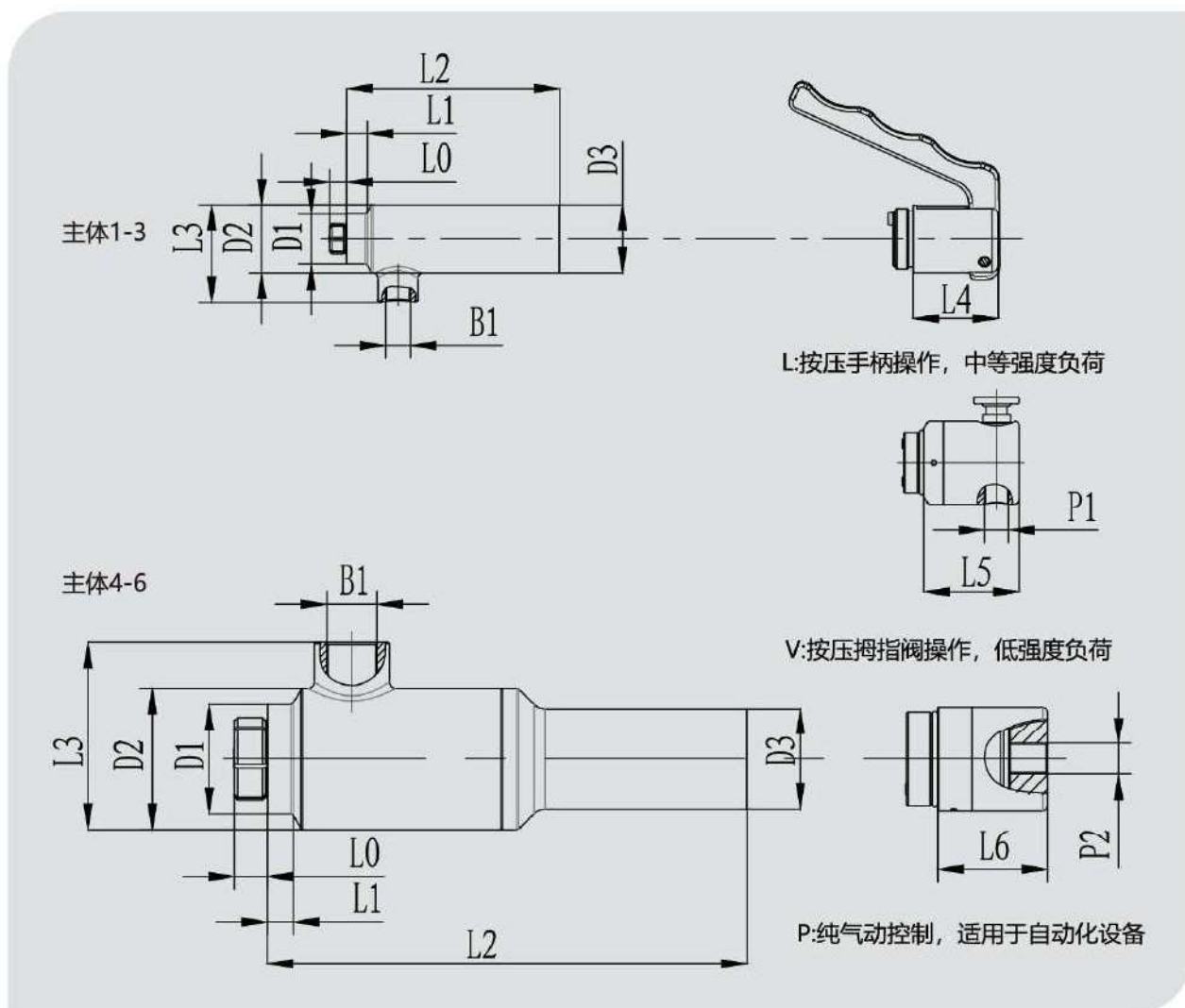
Some models display



Operation method display



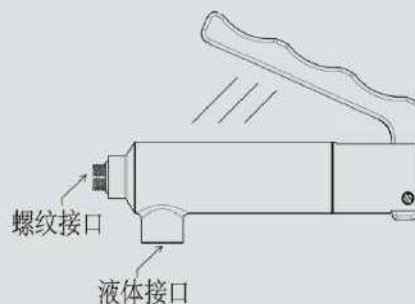
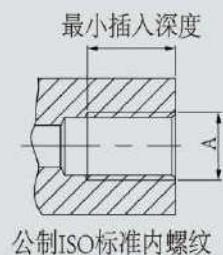
PL-HL Series



主体编号	B1(媒体口)	D1	D2	D3	L0	L1	L2	L3	L4	L5	L6
1	G1/8"	16	27	27	7	6.5	85	38.5	34	38	32
1A	G1/8"	16	27	27	7	12.5	90	38.5	34	38	32
1B	G1/8"	16	27	27	7	25.5	105	38.5	34	38	32
2	G1/8"	20	27	27	7.5	6.5	85	38.5	34	38	32
2A	G1/8"	20	27	27	7.5	12.5	90	38.5	34	38	32
2B	G1/8"	20	27	27	7.5	25.5	110	38.5	34	38	32
3	G1/4"	24	32	32	10	9.5	100	46	35	41	35
4	G1/4"	30	38	32	11.5	8.5	123	54	35	41	35
5	G3/8"	35	45	32	12	7.5	153	60	35	41	35
6	G3/8"	40	50	32	12	7.5	153	67	35	41	35

单位: mm

PL-HL Series



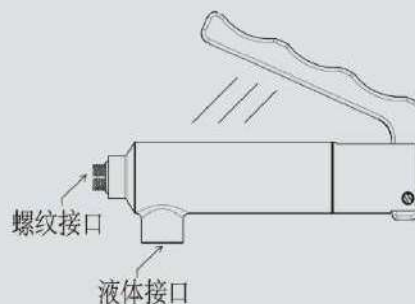
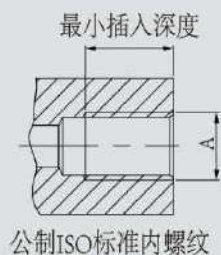
M thread - selection table

Product Model	Internal thread size	Minimum insertion depth	Entity No.	Fluid threaded hole	Maximum pressure	Main material	Sealing ring material	Seal ring model
PL -HL-M10A	M10X1.0	5.5	1	G1/8	200Bar	316 Stainless Steel	Nitrile rubber	PL -HL-M10A-M
PL -HL-M10B	M10X1.25							PL -HL-M10B-M
PL -HL-M10C	M10X1.5							PL -HL-M10C-M
PL -HL-M12A	M12X1.0	7.5	2					PL -HL-M12A-M
PL -HL-M12B	M12X1.25							PL -HL-M12B-M
PL -HL-M12C	M12X1.5							PL -HL-M12C-M
PL -HL-M14A	M14X1.5	10	3	G1/4				PL -HL-M14A-M
PL -HL-M16A	M16X1.5							PL -HL-M16A-M
PL -HL-M18A	M18X1.5		4					PL -HL-M18A-M
PL -HL-M20A	M20X1.5							PL -HL-M20A-M
PL -HL-M22A	M22X1.5	12	5					G3/8
PL -HL-M24A	M24X1.5			PL -HL-M24A-M				
PL -HL-M26A	M26X1.5			PL -HL-M26A-M				
PL -HL-M27D	M27X2.0	12	6	PL -HL-M27D-M				
PL -HL-M28A	M28X1.5			PL -HL-M28A-M				
PL -HL-M30A	M30X1.5			PL -HL-M30A-M				
PL -HL-M33D	M33X2.0							

Note:

- PL-H series quick connector non-standard customization includes: maximum 2 inches.
- The neck length can be extended to avoid problems such as thread mouth sinking and precise interference in operation. Please contact us for details.

PL-HL Series



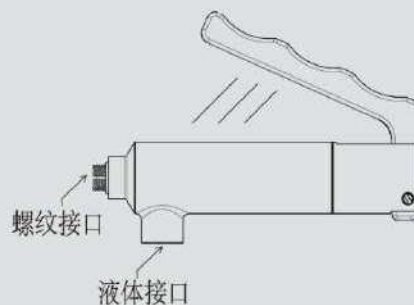
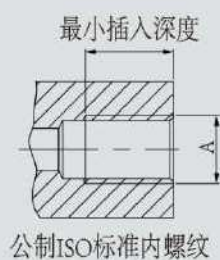
G thread - selection table

Product Model	Internal thread size	Minimum insertion depth	Entity No.	Fluid threaded hole	Maximum pressure	Main material	Sealing ring material	Seal ring model
PL -HL-G01	G1/8	7	1	G1/8	200Bar	316 Stainless Steel	Nitrile rubber	PL -HL-G01-M
PL -HL-G02	G1/4	7.5	2					PL -HL-G02-M
PL -HL-G03	G3/8	10.5	3	G1/4				PL -HL-G03-M
PL -HL-G04	G1/2	11.5	4					PL -HL-G04-M
PL -HL-G05	G3/4	12	5	G3/8				PL -HL-G05-M
PL -HL-G06	G1	12	6					PL -HL-G06-M

R thread - selection table

Product Model	Internal thread size	Minimum insertio n depth	Enti ty No.	Fluid threaded hole	Maximum pressure	Main material	Sealing ring materia l	Seal ring model
PL -HL-R01	R1/8 (BSPT)	7	1	G1/8	200Bar	316 Stainless Steel	Nitrile rubber	PL -HL-R01-M
PL -HL-R02	R1/4 (BSPT)	7.5	2					PL -HL-R02-M
PL -HL-R03	R3/8 (BSPT)	10	3	G1/4				PL -HL-R03-M
PL -HL-R04	R1/2 (BSPT)	11.5	4					PL -HL-R04-M
PL -HL-R05	R3/4 (BSPT)	12	5	G3/8				PL -HL-R05-M
PL -HL-R06	R1 (BSPT)	12	6					PL -HL-R06-M

PL-HL Series



NPT thread - selection table

Product Model	Internal thread size	Minimum insertion depth	Entity No.	Fluid threaded hole	Maximum pressure	Main material	Sealing ring material	Seal ring model
PL -HL-N01	NPT1/8	7	1	G1/8	200Bar	316 Stainless Steel	Nitrile rubber	PL -HL-N01-M
PL -HL-N02	NPT1/4	7.5	2					PL -HL-N02-M
PL -HL-N03	NPT3/8	10	3	G1/4				PL -HL-N03-M
PL -HL-N04	NPT1/2	11.5	4					PL -HL-N04-M
PL -HL-N05	NPT3/4	12	5	G3/8				PL -HL-N05-M
PL -HL-N06	NPT1	12	6					PL -HL-N06-M

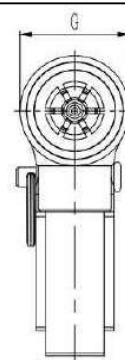
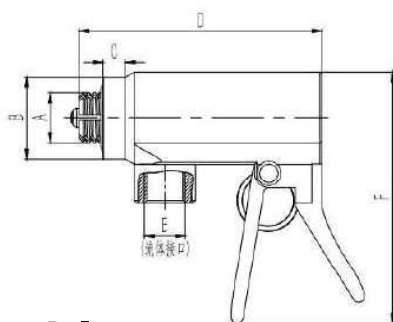
UNF thread - selection table

Product Model	Internal thread size	Minimum insertion depth	Entity No.	Fluid threaded hole	Maximum pressure	Main material	Sealing ring material	Seal ring model
PL -HL-U01	UNF5/16-24	7	1	G1/8	200Bar	316 Stainless Steel	Nitrile rubber	PL -HL-U01-M
PL -HL-U02	UNF3/8-24	7	1					PL -HL-U02-M
PL -HL-U03	UNF7/16-20	7.5	2					PL -HL-U03-M
PL -HL-U04	UNF1/2-20	7.5	2					PL -HL-U04-M
PL -HL-U05	UNF9/16-18	7.5	2					PL -HL-U05-M
PL -HL-U06	UNF3/4-16	11.5	4	G1/4				PL -HL-U06-M
PL -HL-U07	UNF7/8-14	11.5	4					PL -HL-U07-M
PL -HL-U08	UNF1-1/16-12	12	5	G3/8				PL -HL-U08-M
PL -HL-U09	UNF1-3/16-12	12	6					PL -HL-U09-M
PL -HL-U10	UNF1-5/16-12	12	6					PL -HL-U10-M

PL-HNL Series



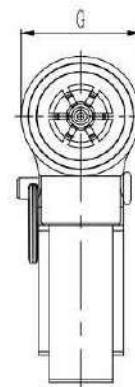
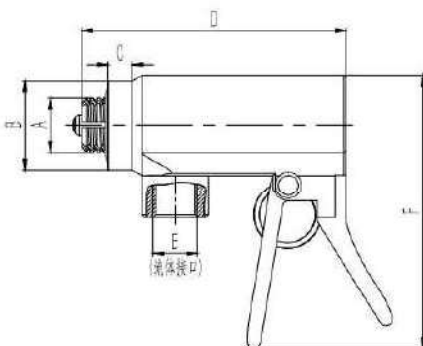
Minimum operating pressure	Vacuum to 50 bar
Seal range	Please see the table
Maximum threaded hole	Refer the table
Thread	See selection table
Material	316 stainless steel
Main Seal	Nitrile rubber
Internal Seal	Nitrile rubber
Operating temperature	-20°C to 120°C



M thread - selection table

Product Model	Size A	Minimu m insertio n depth	Entity No.	Size B	Size C	Size D	Dimen sion E	Size F	Size G	Maxi mum press ure	Main mate rial	Seal ring model			
PL-HNL-M10A	M10X1.0	7	1	16	6	58.5	G1/8	58	18.2	50Bar	Stain less steel	PL -HNL-M10A-M			
PL -HNL-M10B	M10X1.25	7	1	16								PL -HNL-M10B-M			
PL -HNL-M10C	M10X1.5	7	1	16								PL -HNL-M10C-M			
PL -HNL-M12A	M12X1.0	8	2	20		60		60	twenty two			PL -HNL-M12A-M			
PL -HNL-M12B	M12X1.25	8	2	20								PL -HNL-M12B-M			
PL -HNL-M12C	M12X1.5	8	2	20								PL -HNL-M12C-M			
PL-HNL-M14A	M14*1.5	8	2	20		65		65	3			PL-HNL-M14A-M			
PL-HNL-M16A	M16X1.5	8	3	twenty four								PL-HNL-M16A-M			

PL-HNL Series



G thread - selection table

Product Model	Size A	Minimum insertion depth	Entity No.	Size B	Size C	Size D	Dimension E	Size F	Size G	Maximum pressure	Main material	Seal ring model
PL -HNL-G01	G1/8	7	1	16	6	58.5	G1/8	58	18.2	50Bar	Stainless steel	PL -HNL-G01-M
PL -HNL-G02	G1/4	8	2	20		60.5		60	22.5			PL -HNL-G02-M
PL -HNL-G03	G3/8	8	3	twenty four		65		65	27			PL -HNL-G03-M

R thread - selection table

Product Model	Size A	Minimum insertion depth	Entity No.	Size B	Size C	Size D	Dimension E	Size F	Size G	Maximum pressure	Main material	Seal ring model
PL -HNL-R01	R1/8 (BSPT)	7	1	16	6	58.5	G1/8	58	18.2	50Bar	Stainless steel	PL -HNL-R01-M
PL -HNL-R02	R1/4 (BSPT)	8	2	20		60.5		60	22.5			PL -HNL-R02-M
PL -HNL-R03	R3/8 (BSPT)	8	3	twenty four		65		65	27			PL -HNL-R03-M

NPT thread - selection table

Product Model	Size A	Minimum insertion depth	Entity No.	Size B	Size C	Size D	Dimension E	Size F	Size G	Maximum pressure	Main material	Seal ring model
PL -HNL-N01	NPT1/8	7	1	16	6	58.5	G1/8	58	18.2	50Bar	Stainless steel	PL -HNL-N01 -M
PL -HNL-N02	NPT1/4	8	2	20		60.5		60	22.5			PL -HNL-N02-M
PL -HNL-N03	NPT3/8	8	3	twenty four		65		65	27			PL -HNL-N03-M

PL-HWH Series



Minimum operating pressure	Vacuum to 50 bar (UHP version 2500 bar)
Seal range	1/8" - 2"
Maximum threaded hole	Refer the table
Thread	See selection table
Material	316 stainless steel
Main Seal	Neoprene, Nitrile rubber
Internal Seal	Nitrile rubber
Operating temperature	-20°C to 120°C

Threaded Slip-On Quick Seal Connector

1, 滑套式操作

操作简单，轻轻一推即可完成螺纹连接，壳体有网纹滚花，增加手持摩擦力便于操作

2, 端面密封

密封可靠，承压极限高，密封圈易于更换，便于维护

3, 316 不锈钢结构

力学性能优秀，坚固，耐磨，能极大延长接头使用寿命

4, 直通式设计

最大化保证流量，减小对运行测试的影响

5, 安全标识环

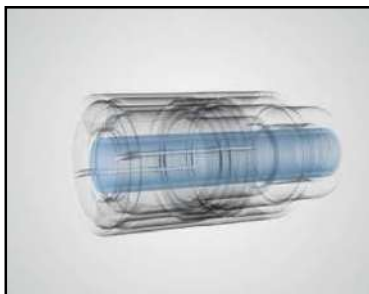
到位确认标识，保障连接器工作正常



Advantages and features of PL-HWH



Metal claws lock, can firmly grasp the thread and increase the test pressure



Straight-through design, larger test diameter, stable test data



The end face sealing ring is sealed, the sealing is more stable, and the accessories are easy to replace

Some models display

操作演示



1. 将接头对准待密封的管件



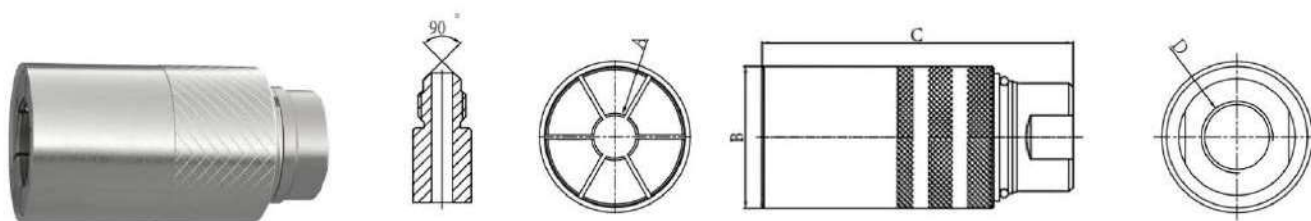
2. 推动接头形成连接

Some models display

部分主体展示



PL-HWH Series



Externally threaded pipe - selection table

model	Size A	Size B	Size C	Size D	Maximum pressure	Main material	Seal ring model
PL-HWH-M10A	M10*1.0	25	72	M14*1.5	20Bar	316 Stainless Steel	PL -HWH-M10A-M
PL-HWH-M10B	M10*1.25						PL -HWH-M10B-M
PL -HWH-G01	G1/8"						PL -HWH-G01-M
PL -HWH-R01	R1/8"						PL -HWH-R01-M
PL -HWH-N01	NPT1/8"						PL -HWH-N01-M
PL -HWH-M10C	M10*1.5	32	72	M20*1.5	20Bar	316 Stainless Steel	PL -HWH-M10C-M
PL -HWH-M12A	M12*1.0						PL -HWH-M12A-M
PL -HWH-M12B	M12*1.25						PL -HWH-M12B-M
PL -HWH-M12C	M12*1.5						PL -HWH-M12C-M
PL -HWH-M14C	M14*1.5						PL -HWH-M14C-M
PL -HWH-G02	G1/4"	32	75	M20*1.5	20Bar	316 Stainless Steel	PL -HWH-G02-M
PL -HWH-R02	R1/4"						PL -HWH-R02-M
PL -HWH-N02	NPT1/4"						PL -HWH-N02-M
PL- HWH-M20C	M20*1.5						PL -HWH-M20C-M
PL -HWH-G04	G1/2"	40	85	M20*1.5	20Bar	316 Stainless Steel	PL -HWH-G04-M
PL -HWH-R04	R1/2"						PL -HWH-R04-M
PL -HWH-N04	NPT1/2"						PL -HWH-N04-M
PL -HWH-M20CH	M20*1.5	43	95	M20*1.5	700bar	316 Stainless Steel	PL -HWH-M20CH-M
PL-HWHM14A-B741	M14*1.0 (70 °)	32	72	M20*1.5	350Bar	316 Stainless Steel	PL-HWHM14A-B741-M
PL-HWHM16A-B741	M16*1.0 (70 °)	32	75	M20*1.5	350Bar	316 Stainless Steel	PL-HWHM16A-B741-M
PL-HWHM18C-B741	M18*1.5 (70 °)	32	75	M20*1.5	350Bar	316 Stainless Steel	PL-HWHM18C-B741-M
PL-HWHM22C-B741	M22*1.5 (70 °)	40	85	M22*1.5	50Bar	316 Stainless Steel	PL-HWHM22C-B741-M

Note:

- PL-HWH series quick connectors is 20Bar . If you need a higher pressure, please contact us.
- PL-HWH series quick connectors, customization includes: various thread specifications, tail fluid hole thread specifications, tail fluid hole orientation, etc.

PL-ST Series



Minimum operating pressure	Vacuum to 20 bar
Seal range	10 - 56 mm
Maximum threaded hole	Refer the table
Thread	See selection table
Material	Aluminium alloy
Main Seal	Nitrile rubber
Internal Seal	Nitrile rubber
Operating temperature	-20°C to 120°C

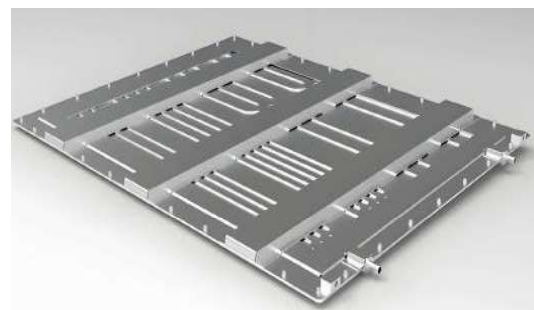
Push-button quick-seal connector

Applies to:

New energy battery water cooling plate test

Liquid cooling plate air tightness test

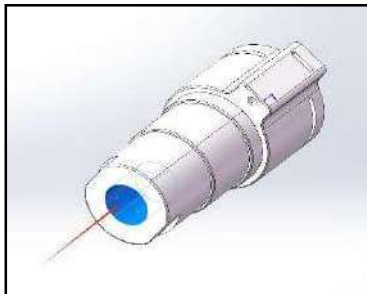
New energy motor controller airtightness test



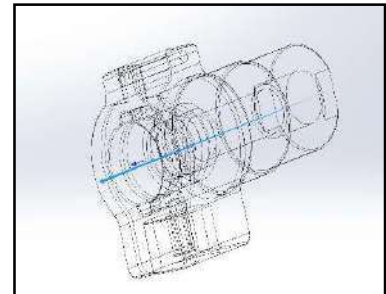
Advantages and features of PL-ST



Push button operation, snap ring locking notch, stable side seal



Standard fluid threaded holes, can be arbitrarily connected, accessories are easy to purchase

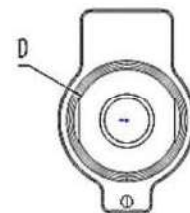
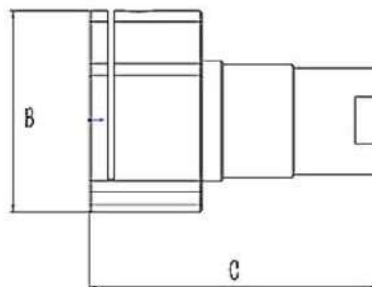
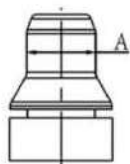


Straight-through design reduces flow loss and ensures test accuracy

Some models display



PL-ST Series



Outer diameter size - selection table

Product Model	Size A	Maximum pressure	Flow rate	Size B	Size C	Size D	Main material	Sealing ring material	Seal ring model
PL-ST-001	16.3	10B	10	65	82.3	G3/8	Aluminum Alloy	Nitrile rubber	PL-ST-001-M
PL-ST-002	22.8	10Bar	14	65	82.3	G3/8	Aluminum Alloy	Nitrile rubber	PL-ST-002-M

Can be customized according to site conditions



- Different function conversion at the end
- Meet gas / fluid test
- Different materials
- Smaller outer diameter
- Fluid port thread customization
- Personalized customization service

PL-L Series

High pressure refrigerant filling head



PL-L02

Low pressure refrigerant filling head



PL-L04

Automobile air conditioning refrigerant filling quick seal connector



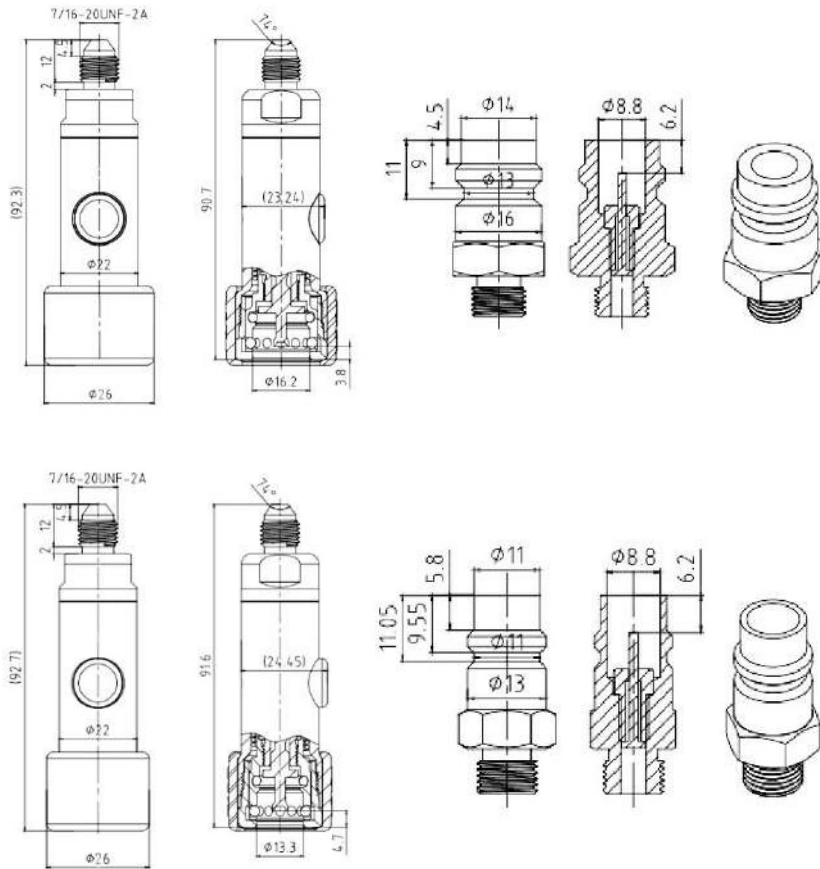
Applies to:

Automobile three-in-one filling production line

Automobile air conditioning refrigerant pipe test



PL-L series refrigerant filling head



- Quick-connect couplings for quick connection of vehicle and machine air conditioning fluid
- Description: Allows frequent connection and disconnection of cooling system equipment without refilling the circuit. Expertly designed for long life, connectors feature a variety of seals, an easy-to-use locking mechanism, ergonomic raised locking buttons, and more. Thanks to the easy-to-use fittings, there is no need for specialized maintenance personnel to drain and fill.
- Nominal diameter DN(mm) : 11 to 14
- Maximum allowable pressure PS (bar) : 15
- Fluid: R-134a
- Main body material: stainless steel

customers



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CHANGCHUN GREEN DRIVE HYDROGEN TECHNOLOGY CO.,LTD

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