



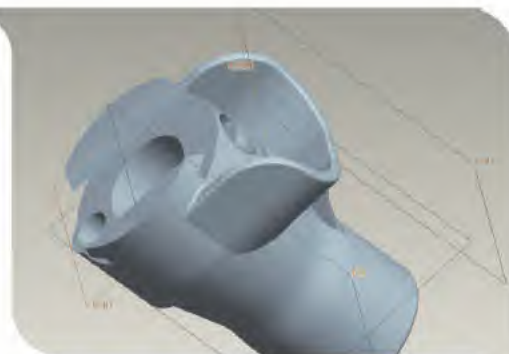
Leader of China Miniature Pipe Fittings



Cangzhou Ruyi Fluid Technology Co., Ltd.

01 Product Design

We have two engineers who have been engaged in product design for 15 years and several assistant engineers. They are proficient in CAD/CAE/CAM/ pro-E/UG/SolidWorks software and Photoshop/ CorelDRAW. Our team evaluate and design the new products together , then use 3D printer print it out to do the initial test.



02 Material Selection

According to the fluid chemical properties, working environment, weight and strength request, we recommend you below available materials . Commonly used plastic materials: PE, PP, PS, ABS, PVC ; Engineering plastics materials: POM, PA66, PMMA, PC, PET, PPO, PBT, PCTG; Special Engineering Plastics materials: POK, PPS, PVDF, PSU, PEI, PVDF, PTFE and various plastic modified materials; Rubber materials: SIL, EPDM, NBR, FKM, FFKM and various plastic modified materials; Metallic materials: SUS304, SUS316, Cu59, LY12 etc.



03 Mould Making

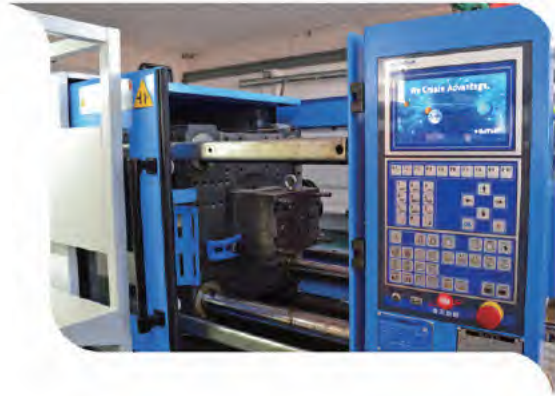
Our mould manufacturing center has jingdiao CNC Machine Tool, Novick wire EDM, Die Sinking EDM, KENT Grinder, Shenyang Machine Tool and other domestic first-class mold processing equipments. We have our own independent mold design team and our engineers have 15 years experience. They use "moldflow" software to develop molds. Our mould raw material supplied by LUNG KEE Group makes our mould more standard and professional.



04

Precise Injection Moulding

We have first-class processing equipments, Haitian injection molding machine, 4 sets 90T, 4 sets 120T, 1 set 200T, 3 customized high temperature injection machine which can process PSU and PEI etc special engineering plastics. All of our moulding technical staff had been trained by Hitian group and obtained the certificate of completion.



05

Ultrasonic Welding

Each quick disconnect is precisely assembled and ultrasonically welded. In the ultrasonic welding workshop, there are total 20 units Brandson & Maxwide Ultrasonic machines, and hundreds of moulds. The annual production of the quick disconnect is about 1 million pieces, and check valve is up to 3 million pieces.



06

Quality Control

Each connector need 4 times test from the raw material to the finished products. We have customized automated air sealing test equipment from SMC(China). Beside, we also have YVM, Tensile strength detector, Tribometers and Mechanical testers, hardness testing device, Infrared thermal imager etc.



Certifications

HSL
CERTIFICATION SERVICE

QUALITY MANAGEMENT SYSTEM CERTIFICATE

No. 11616Q10140R0M

This is to certify that the quality system of:

CANGZHOU RUYI FLUID TECHNOLOGY CO., LTD.

State Road 104 West of Wangweitan Section, Machang Town, Qingxian County, Cangzhou City, Hebei Province;
Unified Social Credit Code: 91130922MA07M4T688
Implemented and maintains a management system which
fulfills the requirement of the following criteria

GB/T19001-2008 idt ISO9001:2008

for the following field of activities

The Production of Plug the Self-locking Type Micro Line Quick Connector (Except Those Having Specific Qualification Requirements)

Production Address: State Road 104 West of Wangweitan Section, Machang Town, Qingxian County, Cangzhou City, Hebei Province

This Certificate shall remain in force until the expiry date printed below,
and shall within the expiry date of the administrative permission/license and qualifications on National/legislative based.
After a surveillance cycle, The certificate is valid only when used together with the Notice of Surveillance Maintenance.
Further clarifications regarding the validity and scope of this certificate and the applicability of the standard
requirements may be obtained by consulting HSL Certification Service.
For the certificate information can be checked on www.hsls.org.cn and www.cncea.gov.cn

This certificate issued on September 9, 2016; Expiry date September 15, 2018
Date of initial certification: September 9, 2016

Wang Feng
on behalf of HSL CERTIFICATION SERVICE






Certificate

Certificate No.: USA16126150R05

This is to certify that the Environmental Management System of:

CANGZHOU RUYI FLUID TECHNOLOGY CO., LTD.

Unified Social Credit Code: 91130922MA07M4T688
State Road 104 West of Wangweitan Section, Machang Town, Qingxian County City,
Cangzhou Province, Hebei Province
(has been certified to conform to the following Environmental
Management System standard)

ISO 14001:2004

This Environmental Management System is valid for the
Sale of self-locking plug-in mini-line quick connector and related
Environmental management activities of involved sites

Issued on Sep 14, 2016
Exp. of Validity: 03.30.18
Date of Issue: Sep 13, 2016

Issued by: *Wu Feng*
Beijing East Asia HSL Certification Center Co., Ltd.





Certificate

Certificate No.: 11416S2553R05

This is to certify that the Occupational Health and Safety Management System of:

CANGZHOU RUYI FLUID TECHNOLOGY CO., LTD.

Unified Social Credit Code: 91130922MA07M4T688
State Road 104 West of Wangweitan Section, Machang Town, Qingxian County City,
Cangzhou Province, Hebei Province
(has been certified to conform to the following Occupational Health and Safety
Management System standard)

GB/T 28001-2011 idt OHSAS 18001:2007

This Occupational Health and Safety Management System is valid for the
Sale of self-locking plug-in mini-line quick connector and related
Occupational health and safety management activities of involved sites

Issued on Sep 14, 2016
Exp. of Validity: 03.30.18
Date of Issue: Sep 13, 2016

Issued by: *Wu Feng*
Beijing East Asia HSL Certification Center Co., Ltd.




**DECLARATION
Of Conformity**

Declaration No.: 11616Q10140R0M

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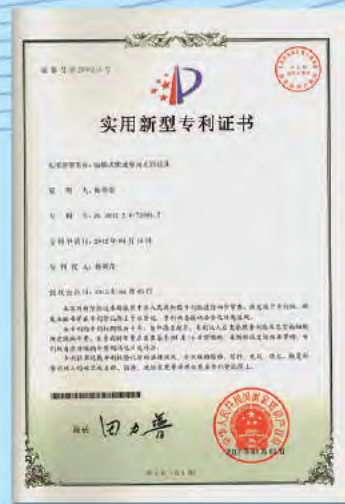
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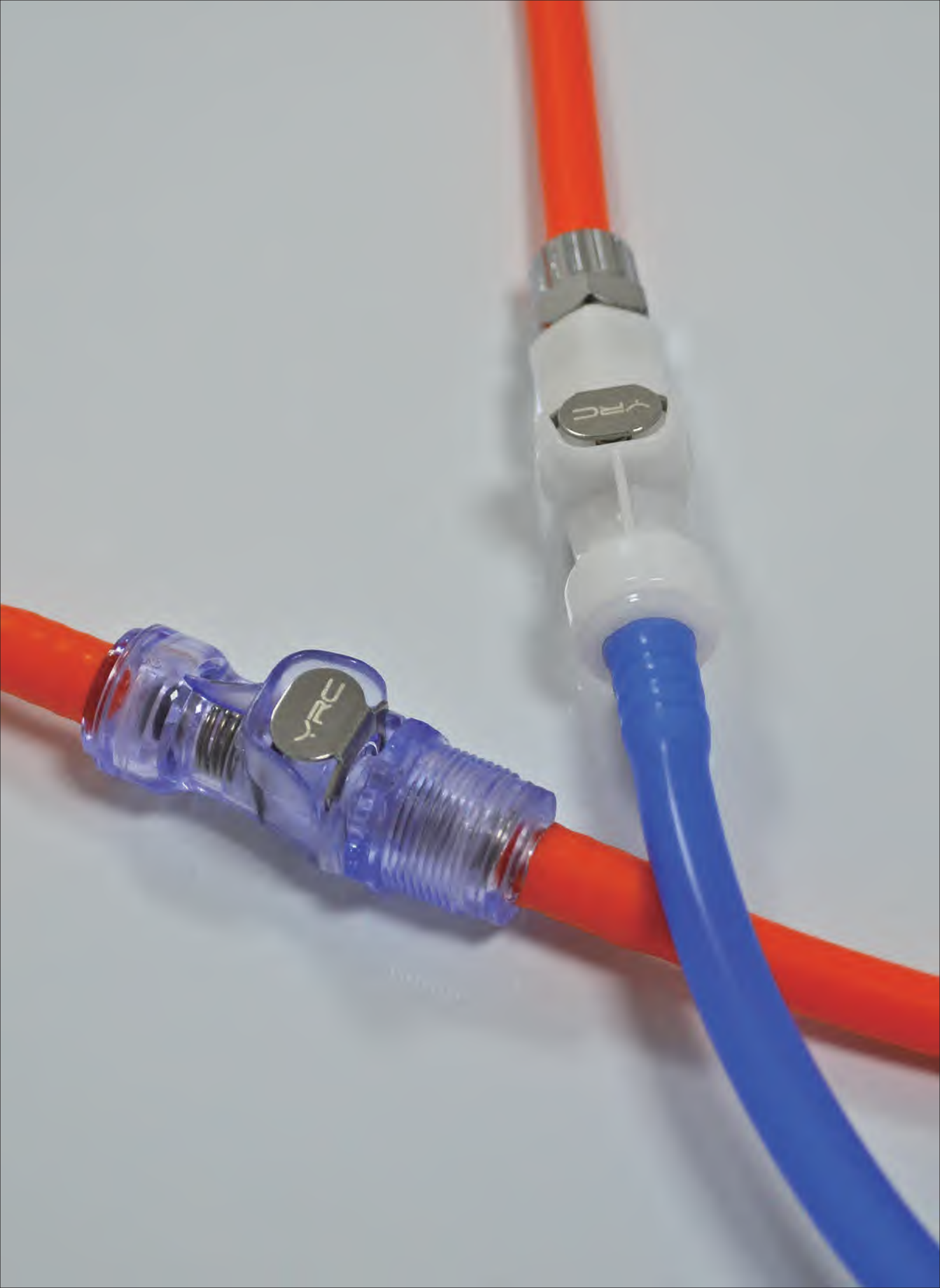
Wang Feng
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By the year of 2017, We have 28 national patents which is include 6 utility models patents and 22 design patents.



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Specification:

Pressure : Vacuum to 120psi,
0.8Mpa

Temperature : -40°F~194°F
(40°C~90°C)

Materials :

Main components & Valves: POM

Thumb latch & Spring: SUS316

O-ring: EPDM

Tubing ID size : 1/16"~3/8"ID
(1.6mm~9.5mmID)

Color : Nature white
Others available

Customized Material : PP/PC/PSU

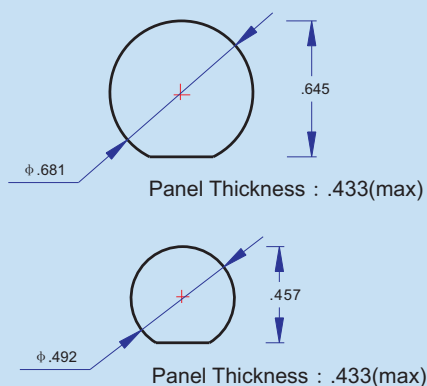
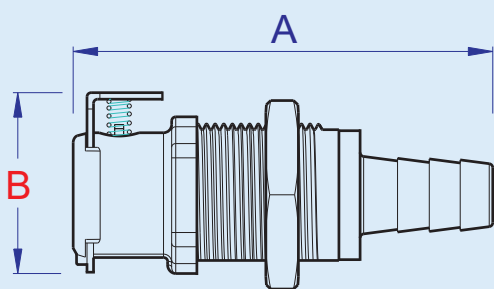
Customized O-ring Material :
FKM/SIL/NBR/AFLAS

KSP Series

KSP series is the most mature and widely used quick couplings. In the medical devices and beauty apparatus, the KSP series quick couplings plays an irreplaceable roles. Featuring of the metal thumb latch is easier to use than ball-and-sleeve designs. And more tubing ID for choosing than the push-fit fittings.

Features	Benefits
Metal thumb latch	One hand connection/disconnection
Small volume & Light weight	Can be installed in small space
Clicks when connected	Assurance of a reliable connection
Multiple tubing sizes	Suitable for various tubing sizes

⚠ Press the metal thumb latch to the end when disconnect the couplings. This operation can avoid scrap the o-ring and extend it service life.



Coupling Bodies

Unit : inch

Termination	Shut Off	Straight Thru	Tubing Size Thread Size	Metric Unit	A	B	Panel Opening
Panel Mount Hose Barb	KSP95WZBM	KSP95WZKM	3/8" ID	9.5mm	1.933	.905	φ .681
	KSP79WZBM	KSP79WZKM	5/16" ID	7.9mm	1.933	.905	φ .681
	KSPD64WZBM	KSPD64WZKM	1/4" ID	6.4mm	1.933	.905	φ .681
	KSPD47WZBM	KSPD47WZKM	3/16" ID	4.7mm	1.933	.905	φ .681
	KSPD32WZBM	KSPD32WZKM	1/8" ID	3.2mm	1.775	.905	φ .681
	KSP64WZBM	KSP64WZKM	1/4" ID	6.4mm	1.842	.807	φ .492
	KSP47WZBM	KSP47WZKM	3/16" ID	4.7mm	1.842	.807	φ .492
	KSP32WZBM	KSP32WZKM	1/8" ID	3.2mm	1.685	.807	φ .492
	KSP16WZBM	KSP16WZKM	1/16" ID	1.6mm	1.358	.807	φ .492
	KSP16WZBM	KSP16WZKM	1/16" ID	1.6mm	1.417	.807	φ .492



In-Line Hose Barb	KSP95WZB	KSP95WZK (A)	3/8" ID	9.5mm	1.933	.905	---
	KSP79WZB	KSP79WZK (A)	5/16" ID	7.9mm	1.933	.905	---
	KSPD64WZB	KSPD64WZK (A)	1/4" ID	6.4mm	1.933	.905	---
	KSPD47WZB	KSPD47WZK (A)	3/16" ID	4.7mm	1.933	.905	---
	KSPD32WZB	KSPD32WZK (A)	1/8" ID	3.2mm	1.775	.905	---
	KSP64WZB	KSP64WZK (A)	1/4" ID	6.4mm	1.842	.807	---
	KSP47WZB	KSP47WZK (A)	3/16" ID	4.7mm	1.842	.807	---
	KSP32WZB	KSP32WZK (A)	1/8" ID	3.2mm	1.685	.807	---
	KSP16WZB	KSP16WZK (A)	1/16" ID	1.6mm	1.358	.807	---
	KSP16WZB	KSP16WZK (A)	1/16" ID	1.6mm	1.358	.807	---



A: Open the valve of inserts

Pipe Thread	KSP (3/8) WZBM	KSP (3/8) WZKM	3/8" NPT	---	1.138	.905	---
	KSPD (1/4) WZBM	KSPD (1/4) WZKM	1/4" NPT	---	1.142	.905	---
	KSP (1/4) WZBM	KSP (1/4) WZKM	1/4" NPT	---	1.083	.807	---
	KSP (1/8) WZBM	KSP (1/8) WZKM (A)	1/8" NPT	---	.988	.807	---
	KSP (11/16) WZBM	KSP (11/16) WZKM	11/16-24UNEF	---	1.193	.905	---
	KSP (1/2) WZBM	KSP (1/2) WZKM	1/2-24UNEF	---	1.095	.807	---
	KSPD (G1/4) WZBM	KSPD (G1/4) WZKM	G1/4	---	1.158	.905	---



Panel Mount Lock Nut	KSPD64WZBMS	KSPD64WZKMS	1/4" ID	6.4mm	1.921	.905	φ .681
	KSP40WZBMS	KSP40WZKMS	5/32" ID	4.0mm	1.701	.807	φ .492



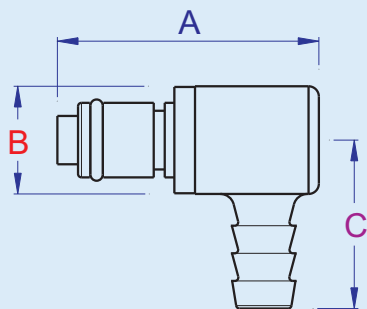
In-Line Lock Nut	KSPD64WZBS	KSPD64WZKS	1/4" ID	6.4mm	1.921	.905	---
	KSP40WZBS	KSP40WZKS	5/32" ID	4.0mm	1.701	.807	---



Series code Elbow Tubing size Body/Insert Panel mount Retaining rings

KS - P - L - D - 95 - W - Z/T - B/K - M - S - A

Material:Plastic Big flow Color:white Shut off/Straight thru Lock nut



Big Flow

Panel Mount	Panel Opening Size	Panel Thickness(MAX)
By Thread	φ .681	.197
By Retaining Rings	φ .63	.307

Small Flow

Panel Mount	Panel Opening Size	Panel Thickness(MAX)
By Thread	φ .492	.236
By Retaining Rings	φ .48	.244

Coupling Inserts

Unit : inch

Termination	Shut Off	Straight Thru	Tubing Size Thread Size	Metric Unit	A	A (Straight Thru)	B	C	Panel Opening
Panel Mount Hose Barb	KSP95WTBM	KSP95WTKM	3/8" ID	9.5mm	2.047	1.905	.846	---	φ .681
	KSP79WTBM	KSP79WTKM	5/16" ID	7.9mm	2.047	1.905	.846	---	φ .681
	KSPD64WTBM	KSPD64WTKM	1/4" ID	6.4mm	2.047	1.905	.846	---	φ .681
	KSPD47WTBM	KSPD47WTKM	3/16" ID	4.7mm	2.047	1.905	.846	---	φ .681
	KSPD32WTBM	KSPD32WTKM	1/8" ID	3.2mm	1.889	1.748	.846	---	φ .681
	KSP64WTBM	KSP64WTKM	1/4" ID	6.4mm	1.925	1.830	.708	---	φ .492
	KSP47WTBM	KSP47WTKM	3/16" ID	4.7mm	1.925	1.830	.708	---	φ .492
	KSP32WTBM	KSP32WTKM	1/8" ID	3.2mm	1.756	1.661	.708	---	φ .492
	KSP16WTBM	KSP16WTKM	1/16" ID	1.6mm	1.429	1.334	.708	---	φ .492



In-Line Hose Barb	KSP95WTB	KSP95WTK (HJ)	3/8" ID	9.5mm	2.011	1.862	.708	---	---
	KSP79WTB	KSP79WTK (HJ)	5/16" ID	7.9mm	2.011	1.862	.708	---	---
	KSPD64WTB	KSPD64WTK (HJ)	1/4" ID	6.4mm	2.011	1.862	.708	---	---
	KSPD47WTB	KSPD47WTK (HJ)	3/16" ID	4.7mm	2.011	1.862	.708	---	---
	KSPD32WTB	KSPD32WTK (HJ)	1/8" ID	3.2mm	1.83	1.681	.708	---	---
	KSP64WTB	KSP64WTK (HJ)	1/4" ID	6.4mm	1.716	1.598	.563	---	---
	KSP47WTB	KSP47WTK (HJ)	3/16" ID	4.7mm	1.716	1.598	.563	---	---
	KSP32WTB	KSP32WTK (HJ)	1/8" ID	3.2mm	1.566	1.433	.563	---	---



HJ: Ultrasonic Welding

Straight Thru Hose Barb	---	KSP127WTK	1/2" ID	12.7mm	---	1.637	.696	---	---
	---	KSP95WTK	3/8" ID	9.5mm	---	1.362	.61	---	---
	---	KSP79WTK	5/16" ID	7.9mm	---	1.362	.61	---	---
	---	KSPD64WTK	1/4" ID	6.4mm	---	1.362	.61	---	---
	---	KSPD47WTK	3/16" ID	4.7mm	---	1.354	.61	---	---
	---	KSPD32WTK	1/8" ID	3.2mm	---	1.196	.61	---	---
	---	KSP64WTK	1/4" ID	6.4mm	---	1.22	.492	---	---
	---	KSP47WTK	3/16" ID	4.7mm	---	1.185	.492	---	---
	---	KSP32WTK	1/8" ID	3.2mm	---	1.047	.492	---	---



Panel Mount Co-use Retaining Rings	KSP95WTBA	KSP95WTKA	3/8" ID	9.5mm	2.067	1.93	.787	---	φ .63
	KSP79WTBA	KSP79WTKA	5/16" ID	7.9mm	2.067	1.93	.787	---	φ .63
	KSPD64WTBA	KSPD64WTKA	1/4" ID	6.4mm	2.067	1.93	.787	---	φ .63
	KSPD47WTBA	KSPD47WTKA	3/16" ID	4.7mm	2.067	1.93	.787	---	φ .63
	KSPD32WTBA	KSPD32WTKA	1/8" ID	3.2mm	1.91	1.771	.787	---	φ .63
	KSP64WTBA	KSP64WTKA	1/4" ID	6.4mm	2.004	1.885	.562	---	φ .48
	KSP47WTBA	KSP47WTKA	3/16" ID	4.7mm	2.004	1.885	.562	---	φ .48
	KSP32WTBA	KSP32WTKA	1/8" ID	3.2mm	1.838	1.72	.562	---	φ .48
	KSP16WTBA	KSP16WTKA	1/16" ID	1.6mm	1.275	1.098	.582	---	φ .492



Termination	Shut Off	Straight Thru	Tubing Size Thread Size	Metric Unit	A	A (Straight Thru)	B	C	Panel Opening
Panel mount Lock Nut	KSPD64WTBMS KSP40WTBMS	KSPD64WTKMS KSP40WTKMS	1/4" ID 5/32" ID	6.4mm 4mm	2.027 1.78	1.893 1.681	.846 .708	— —	Φ.681 Φ.492



In-Line Lock Nut	KSPD64WTBS KSP40WTBS KSP40WTBSA	KSPD64WTKS KSP40WTKS KSP40WTKSA	1/4" ID 5/32" ID 5/32" ID	6.4mm 4mm 4mm	2.027 1.594 1.862	1.885 1.464 1.752	.696 .562 .562	— — —	— — Φ.48
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Pipe Thread	KSPD(1/4)WTBM KSP(1/8)WTBM — KSP(1/2)WTBM	KSPD(1/4)WTKM KSP(1/8)WTKM KSP(11/16)WTKM KSP(1/2)WTKM	1/4"NPT 1/8"NPT 11/16-24UNEF 1/2-24UNEF	— — — —	1.653 1.468 — 1.26	1.503 1.338 1.157 1.082	.708 .57 .846 .708	— — — —	— — — —
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Elbow Shut-off	KSPL95WTB KSPL79WTB KSPLD64WTB KSPL64WTB KSPL47WTB KSPL32WTB KSPL16WTB	— — — — — — —	3/8" ID 5/16" ID 1/4" ID 1/4" ID 3/16" ID 1/8" ID 1/16" ID	9.5mm 7.9mm 6.4mm 6.4mm 4.7mm 3.2mm 1.6mm	1.484 1.484 1.354 1.291 1.291 1.291 1.28	— — — — — — —	.618 .618 .618 .496 .496 .496 .582	.917 .917 .917 .885 .885 .72 .40	— — — — — — —
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Elbow Straight Thru	— — — — — — —	KSPL95WTK KSPL79WTK KSPLD64WTK KSPL64WTK KSPL47WTK KSPL32WTK KSPL16WTK	3/8" ID 5/16" ID 1/4" ID 1/4" ID 3/16" ID 1/8" ID 1/16" ID	9.5mm 7.9mm 6.4mm 6.4mm 4.7mm 3.2mm 1.6mm	— — — — — — —	1.358 1.358 1.358 .996 .996 .93 1.161	.614 .614 .614 .484 .484 .484 .582	1.157 1.157 1.157 .964 .964 .728 .40	— — — — — — —
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Series code Elbow Tubing size Body/Insert Panel mount Retaining rings

KS - P - L - D - 95 - W - Z/T - B/K - M - S - A

Material: Plastic Big flow Color: white Shut off/Straight thru Lock nut

Specification:

Pressure : Vacuum to 120psi,
0.8Mpa

Temperature : -40°F~~194°F
(-40°C~~90°C)

Materials :

Main components & Valves: POM

Thumb latch :POM

Spring: SUS316

O-ring: EPDM

Tubing ID size : 1/8"~~3/8"ID
(3.2mm~~9.5mmID)

Color : Nature white
Others available

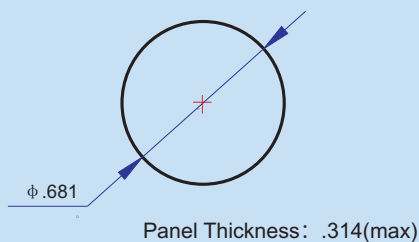
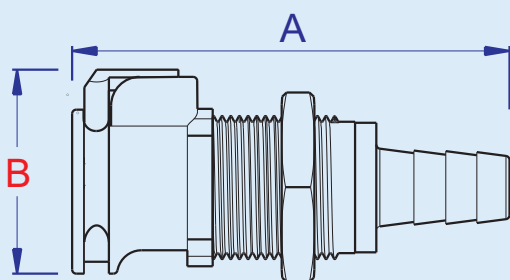
Customized Material : PP/PC/PSU

Customized O-ring Material :
FKM/SIL/NBR/AFLAS

QS Series

All-plastic coupling features a plastic thumb latch, which is improved the quality of the operation and less the outside metal moving parts, thus reduced weight. Variety colors of the thumb latch makes the appearance more beautiful. More tubing sizes and easy operation makes the QS series as the second choice for industrial application.

Features	Benefits
Plastic thumb latch	Easy to press and multiple color for choose
Shrouded thumb latch	Avoid disconnect accidentally
Without metal parts	Low weight, simple operate
Multiple tubing sizes	Suitable for various tubing sizes



Coupling Bodies

Unit : inch

Termination	Shut Off	Straight Thru	Tubing Size Thread Size	Metric Unit	A	B	Panel Opening
Panel Mount Hose Barb	QS95WZBM	QS95WZKM	3/8" ID	9.5mm	2.02	.964	φ .681
	QS79WZBM	QS79WZKM	5/16" ID	7.9mm	2.02	.964	φ .681
	QSD64WZBM	QSD64WZKM	1/4" ID	6.4mm	2.02	.964	φ .681
	QSD47WZBM	QSD47WZKM	3/16" ID	4.7mm	2.02	.964	φ .681
	QSD32WZBM	QSD32WZKM	1/8" ID	3.2mm	1.862	.964	φ .681



In-Line Hose Barb	QS95WZB	QS95WZK	3/8" ID	9.5mm	2.00	.964	---
	QS79WZB	QS79WZK	5/16" ID	7.9mm	2.00	.964	---
	QSD64WZB	QSD64WZK	1/4" ID	6.4mm	2.00	.964	---
	QSD47WZB	QSD47WZK	3/16" ID	4.7mm	2.00	.964	---
	QSD32WZB	QSD32WZK	1/8" ID	3.2mm	1.85	.964	---



Panel Mount Lock Nut	QSD64WZBMS	QSD64WZKMS	1/4" ID	6.4mm	2.00	.964	φ .681
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In-Line Lock Nut	QSD64WZBS	QSD64WZKS	1/4" ID	6.4mm	2.01	.964	---
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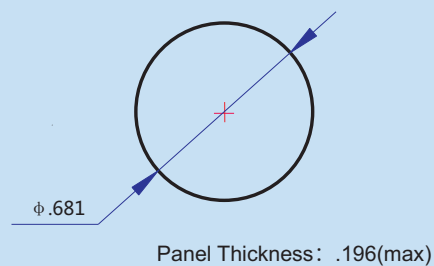
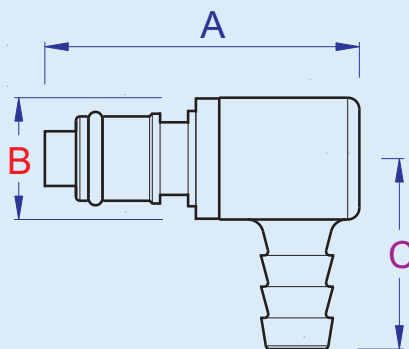
Pipe Thread	---	QS (3/8) WZKM	3/8" NPT	---	1.37	.964	---
	QS (11/16) WZBM	QS (11/16) WZKM	11/16-24UNEF	---	1.263	.964	---



Integrated	---	QS95WZK	3/8" ID	9.5mm	1.358	.964	---
	---	QSD64WZK	1/4" ID	6.4mm	1.358	.964	---
	---	QSD64WZK (Shrouded)	1/4" ID	6.4mm	1.358	.964	---



Elbow Tubing size Body/Insert Panel mount Retaining rings
QS - L - D - 95 - W - Z/T - B/K - M - S - A
 Series code Big flow Color:white Shut off/Straight thru Lock nut



Coupling Inserts

Unit : inch

Termination	Shut Off	Straight Thru	Tubing Size Thread Size	Metric Unit	A	A (Straight Thru)	B	C	Panel Opening
Panel Mount Hose Barb	QS95WTBM	QS95WTKM	3/8" ID	9.5mm	2.145	1.948	.846	---	$\phi .681$
	QS79WTBM	QS79WTKM	5/16" ID	7.9mm	2.145	1.948	.846	---	$\phi .681$
	QSD64WTBM	QSD64WTKM	1/4" ID	6.4mm	2.145	1.948	.846	---	$\phi .681$
	QSD47WTBM	QSD47WTKM	3/16" ID	4.7mm	2.145	1.948	.846	---	$\phi .681$
	QSD32WTBM	QSD32WTKM	1/8" ID	3.2mm	1.988	1.791	.846	---	$\phi .681$

In-Line Hose Barb	QS95WTB	QS95WTK (HJ)	3/8" ID	9.5mm	2.125	1.937	.708	---	---
	QS79WTB	QS79WTK (HJ)	5/16" ID	7.9mm	2.125	1.937	.708	---	---
	QSD64WTB	QSD64WTK (HJ)	1/4" ID	6.4mm	2.125	1.937	.708	---	---
	QSD47WTB	QSD47WTK (HJ)	3/16" ID	4.7mm	2.125	1.937	.708	---	---
	QSD32WTB	QSD32WTK (HJ)	1/8" ID	3.2mm	1.968	1.771	.708	---	---

Panel mount Lock Nut	QSD64WTBMS	QSD64WTKMS	1/4" ID	6.4mm	2.145	1.948	.846	---	$\phi .681$
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In-Line Lock Nut	QSD64WTBS	QSD64WTKS	1/4" ID	6.4mm	2.149	1.952	.708	---	---
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Termination	Shut Off	Straight Thru	Tubing Size Thread Size	Metric Unit	A	A (Straight Thru)	B	C	Panel Opening
Pipe Thread	QSD (1/4) WTBM ---	QSD (1/4) WTKM QS (11/16) WTKM	1/4"NPT 11/16-24UNEF	--- ---	1.752 ---	1.555 1.204	.708 .846	--- ---	---



Straight Thru	---	QS95WTK	3/8" ID	9.5mm	---	1.377	.61	---	---
Hose Barb	---	QS79WTK	5/16" ID	7.9mm	---	1.377	.61	---	---
	---	QSD64WTK	1/4" ID	6.4mm	---	1.377	.61	---	---



Elbow	QSL95WTB	QSL95WTK (HJ)	3/8" ID	9.5mm	1.63	1.433	.618	.917	---
Shut-off	QSL79WTB	QSL79WTK (HJ)	5/16" ID	7.9mm	1.63	1.433	.618	.917	---
	QSLD64WTB	QSLD64WTK (HJ)	1/4" ID	6.4mm	1.472	1.275	.618	.917	---



Elbow	---	QSLD64WTK	1/4" ID	6.4mm	---	1.196	.614	.917	---
Straight Thru	---	QSLD47WTK	3/16" ID	4.7mm	---	1.181	.598	.917	---



Elbow Tubing size Body/Insert Panel mount Retaining rings
QS - L - D - 95 - W - Z/T - B/K - M - S - A
 Series code Big flow Color:white Shut off/Straight thru Lock nut

Specification:

Pressure : Vacuum to 250psi,
1.7Mpa

Temperature : -40°F~-194°F
(-40°C~~90°C)

Materials :

Main components: Chrome-plated brass

Valves: POM

Thumb latch and Spring: SUS316

O-ring: Peroxide EPDM

Tubing ID size : 1/8"~~3/8"ID
(3.2mm~~9.5mmID)

Customized Valves Material :

PP/PC/PSU

Customized O-ring Material :

FKM/SIL/NBR/AFLAS

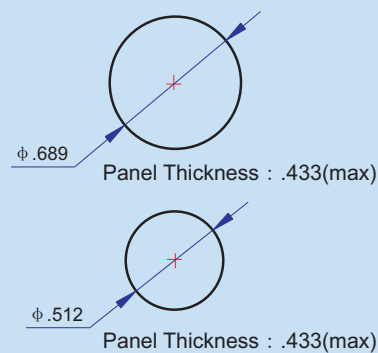
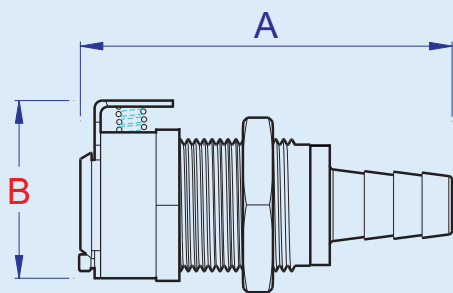
KSJ Series

Chrome-plated brass couplings

with high surface hardness can withstand higher pressure and temperature. The KSJ Series features a one-hand operation for swift and easy connects and disconnects, more tubing sizes. It is the best choice under high-temperature & high-pressure environments.

Features	Benefits
Brass material	Durable & withstand special environment
Chrome-plated	High quality surface appearance
Metal thumb latch	One hand connection/disconnection
Multiple tubing sizes	Suitable for various tubing sizes

⚠ Press the metal thumb latch to the end when disconnect the couplings. This operation can avoid scrap the o-ring and extend it service life.



Coupling Bodies

Unit : inch

Termination	Shut Off	Straight Thru	Tubing Size Thread Size	Metric Unit	A	B	Panel Opening
Panel Mount Hose Barb	KSJ95SZBM	KSJ95SZKM	3/8" ID	9.5mm	1.948	.905	φ .689
	KSJ79SZBM	KSJ79SZKM	5/16" ID	7.9mm	1.948	.905	φ .689
	KSJD64SZBM	KSJD64SZKM	1/4" ID	6.4mm	1.948	.905	φ .689
	KSJD47SZBM	KSJD47SZKM	3/16" ID	4.7mm	1.948	.905	φ .689
	KSJD32SZBM	KSJD32SZKM	1/8" ID	3.2mm	1.74	.905	φ .689
	KSJ64SZBM	KSJ64SZKM	1/4" ID	6.4mm	1.83	.807	φ .512
	KSJ47SZBM	KSJ47SZKM	3/16" ID	4.7mm	1.83	.807	φ .512
	KSJ32SZBM	KSJ32SZKM	1/8" ID	3.2mm	1.673	.807	φ .512



In-Line Hose Barb	KSJ95SZB	KSJ95SZK	3/8" ID	9.5mm	1.952	.905	---
	KSJ79SZB	KSJ79SZK	5/16" ID	7.9mm	1.952	.905	---
	KSJD64SZB	KSJD64SZK	1/4" ID	6.4mm	1.952	.905	---
	KSJD47SZB	KSJD47SZK	3/16" ID	4.7mm	1.952	.905	---
	KSJD32SZB	KSJD32SZK	1/8" ID	3.2mm	1.771	.905	---
	KSJ64SZB	KSJ64SZK	1/4" ID	6.4mm	1.803	.807	---
	KSJ47SZB	KSJ47SZK	3/16" ID	4.7mm	1.803	.807	---
	KSJ32SZB	KSJ32SZK	1/8" ID	3.2mm	1.645	.807	---



Panel Mount Lock Nut	KSJ64SZBMS	KSJ64SZKMS	1/4" ID	6.4mm	1.767	.807	φ .512
	KSJ40SZBMS	KSJ40SZKMS	5/32" ID	4.0mm	1.692	.807	φ .512



In-Line Lock Nut	KSJ64SZBS	KSJ64SZKS	1/4" ID	6.4mm	1.787	.807	---
	KSJ40SZBS	KSJ40SZKS	5/32" ID	4.0mm	1.712	.807	---



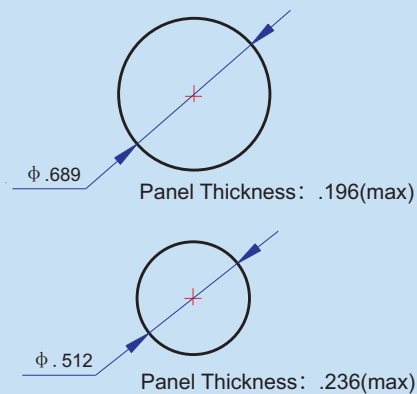
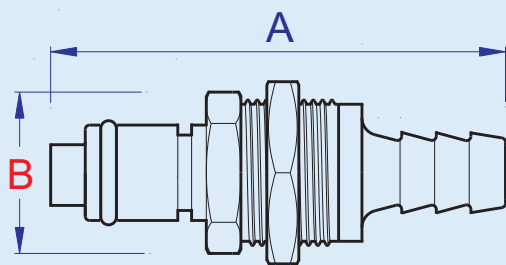
Pipe Thread	KSJ (3/8) SZBM	KSJ (3/8) SZKM	3/8" NPT	---	1.181	.905	---
	KSJ (1/4) SZBM	KSJ (1/4) SZKM	1/4" NPT	---	1.102	.807	---
	KSJD (1/4) SZBM	KSJD (1/4) SZKM	1/4" NPT	---	1.169	.905	---
	KSJ (11/16) SZBM	KSJ (11/16) SZKM	11/16-24 UNEF	---	1.196	.905	---
	KSJ (M13) SZBM	KSJ (M13) SZKM	M13*1.0	---	1.086	.807	---
	KSJ (M22) SZBMI	KSJ (M22) SZKMI	M22*1.0	---	1.20	.984	---
	KSJ (M24) SZBME	KSJ (M24) SZKME	M24*1.0	---	1.023	.944	---



Series code Elbow Tubing size Body/Insert Panel mount Retaining rings

KS - J - L - D - 95 - S - Z/T - B/K - M - S - A

Material:metal Big flow Color:silver Shut off/Straight thru Lock nut



Coupling Inserts

Unit : inch



Termination	Shut Off	Straight Thru	Tubing Size Thread Size	Metric Unit	A	A (Straight Thru)	B	Panel Opening
Panel Mount Hose Barb	KSJ95STBM	KSJ95STKM	3/8" ID	9.5mm	2.055	1.913	.854	$\phi .689$
	KSJ79STBM	KSJ79STKM	5/16" ID	7.9mm	2.055	1.913	.854	$\phi .689$
	KSJD64STBM	KSJD64STKM	1/4" ID	6.4mm	2.055	1.913	.854	$\phi .689$
	KSJD47STBM	KSJD47STKM	3/16" ID	4.7mm	2.055	1.913	.854	$\phi .689$
	KSJD32STBM	KSJD32STKM	1/8" ID	3.2mm	1.862	1.72	.854	$\phi .689$
	KSJ64STBM	KSJ64STKM	1/4" ID	6.4mm	1.925	1.83	.72	$\phi .512$
	KSJ47STBM	KSJ47STKM	3/16" ID	4.7mm	1.925	1.83	.72	$\phi .512$
	KSJ32STBM	KSJ32STKM	1/8" ID	3.2mm	1.728	1.63	.72	$\phi .512$



In-Line Hose Barb	KSJ95STB	---	3/8" ID	9.5mm	2.055	1.913	.90	---
	KSJ79STB	---	5/16" ID	7.9mm	2.055	1.913	.90	---
	KSJD64STB	---	1/4" ID	6.4mm	2.055	1.913	.90	---
	KSJD47STB	---	3/16" ID	4.7mm	2.055	1.913	.90	---
	KSJD32STB	---	1/8" ID	3.2mm	1.862	1.72	.90	---
	KSJ64STB	---	1/4" ID	6.4mm	1.925	1.83	.72	---
	KSJ47STB	---	3/16" ID	4.7mm	1.925	1.83	.72	---
	KSJ32STB	---	1/8" ID	3.2mm	1.728	1.63	.72	---

Termination	Shut Off	Straight Thru	Tubing Size Thread Size	Metric Unit	A	A (Straight Thru)	B	Panel Opening
Panel mount	KSJ64STBMS	KSJ64STKMS	1/4" ID	6.4mm	1.85	1.755	.72	Φ.512
Lock Nut	KSJ40STBMS	KSJ40STKMS	5/32" ID	4.0mm	1.775	1.681	.72	Φ.512



In-Line	KSJ64STBS	KSJ64STKS	1/4" ID	6.4mm	1.85	1.755	.72	---
Lock Nut	KSJ40STBS	KSJ40STKS	5/32" ID	4.0mm	1.775	1.681	.72	---



	KSJD (1/4) STBM	KSJD (1/4) STKM	1/4" NPT	---	1.732	1.204	.854	---
Pipe Thread	---	KSJ (11/16) STKM	11/16-24 UNEF	---	---	1.161	.854	---
	---	KSJ (M13) STKM	M13*1.0	---	---	1.074	.72	---



	---	KSJ95STK	3/8" ID	9.5mm	---	1.362	.61	---
	---	KSJ79STK	5/16" ID	7.9mm	---	1.362	.61	---
	---	KSJD64STK	1/4" ID	6.4mm	---	1.362	.61	---
	---	KSJD47STK	3/16" ID	4.7mm	---	1.362	.61	---
Straight Thru	---	KSJD32STK	1/8" ID	3.2mm	---	1.326	.61	---
Hose Barb	---	KSJ64STK	1/4" ID	6.4mm	---	1.224	.472	---
	---	KSJ47STK	3/16" ID	4.7mm	---	1.224	.472	---
	---	KSJ32STK	1/8" ID	3.2mm	---	1.059	.472	---



Series code Elbow Tubing size Body/Insert Panel mount Retaining rings

KS - J - L - D - 95 - S - Z/T - B/K - M - S - A

Material:metal Big flow Color:silver Shut off/Straight thru Lock nut



LFP Series

LFP series is the maximum flow of quick couplings at present. It is with light weight, excellent chemical resistance and easy operations. So it has already replaced many heavy brass ball lock couplings, and became the first choice of large flow industrial.



Specification:

Pressure : Vacuum to 60psi,
0.4Mpa

Temperature : 41°F~194°F
(5°C~90°C)

Materials :

Main components & Valves: PP

Thumb latch & Nut: POM

Spring: SUS316

O-ring: EPDM

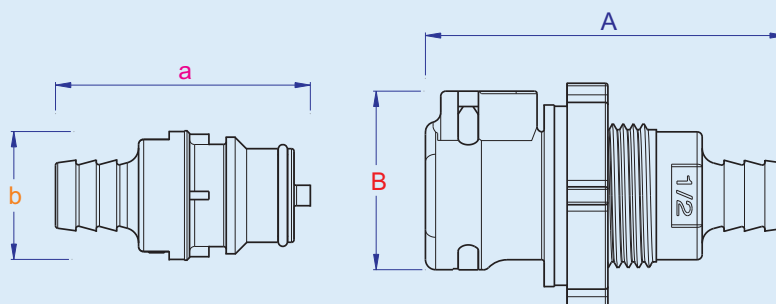
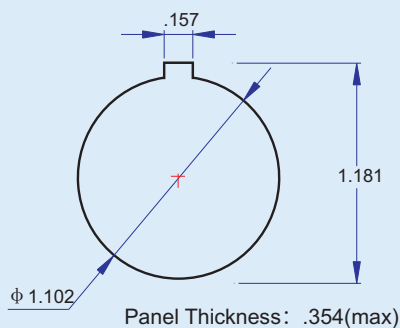
Tubing ID size : 1/2"ID (12.7mm ID)

Color : Translucent

Others available

Customized O-ring Material :

FKM/SIL/NBR/AFLAS



LFP Couplings



Unit : inch

Termination	Shut Off	Straight Thru	Tubing Size Thread Size	Metric Unit	A	B	a	b	Panel Opening
Body	LFP127WZBM	LFP127WZKM	1/2" ID	12.7mm	2.78	1.531	—	—	φ1.102
Insert	LFP127WTB	LFP127WTK	1/2" ID	12.7mm	—	—	1.93	1.019	—

Series code Tubing size Body/Insert Panel mount

LF - P - 127 - W - Z/T - B/K - M

Material: Plastic Color: white Shut off/Straight thru



SMP Series

SMP Series is the smallest couplings.

The twist-to-connect couplings can freely rotate when connect with the tubing.

Effectively prevents of tubing kinked and accidental disconnection during use.



Specification:

Pressure : Vacuum to 100psi,
0.6Mpa

Temperature : -40°F~~194°F
(-40°C~~90°C)

Materials :

Main components & Valves: POM

Spring: SUS316

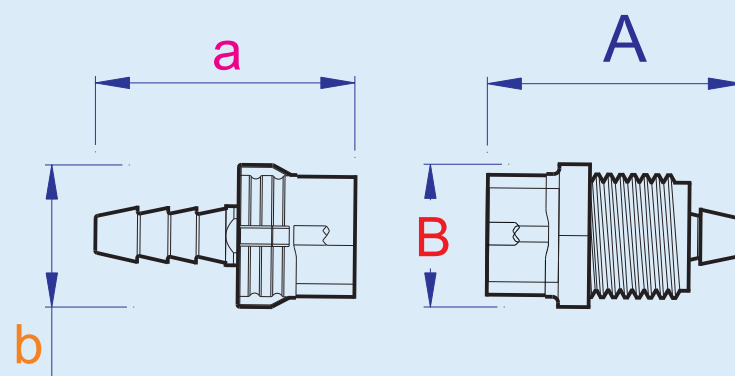
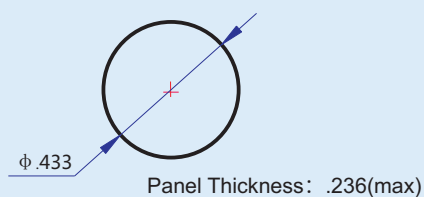
O-ring: NBR

Tubing ID size : 1/16"~~1/8"ID
(16mm~~32mm ID)

Color : Nature white
Others available

Customized Material : PP

Customized O-ring Material :
EPDM/FKM/SIL



SMP Couplings



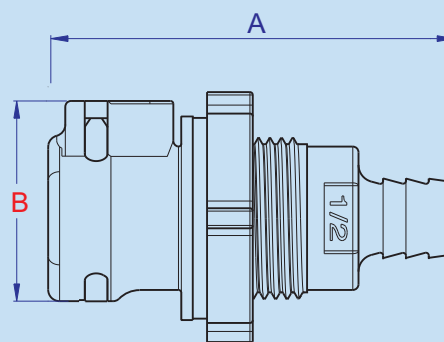
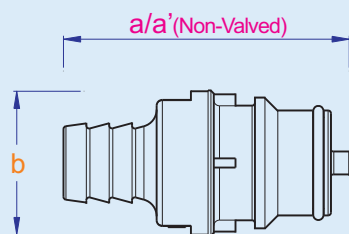
Unit : inch

Termination	Shut Off	Straight Thru	Tubing Size Thread Size	Metric Unit	A	B	a	b	Panel Opening
Body	SMP32WZBM	SMP32WZKM	1/8" ID	3.2mm	.885	.496	---	---	$\phi .433$
	SMP32WZB	SMP32WZK	1/8" ID	3.2mm	.885	.496	---	---	---
Insert	---	SMP32WTKM	1/8" ID	3.2mm	---	---	.885	.496	$\phi .433$
	---	SMP32WTK	1/8" ID	3.2mm	---	---	.885	.492	---
Body	SMP16WZB	SMP16WZK	1/16" ID	1.6mm	.893	.326	---	---	---
Insert	---	SMP16WTK	1/16" ID	1.6mm	---	---	.787	.492	---
	---	SMPL16WTK	1/16" ID	1.6mm	---	---	.85	.571	---

Series code Tubing size Body/Insert Panel mount

SM - P - 32 - W - Z/T - B/K - M

Material:Plastic Color:white Shut off/Straight thru



Special Series

Unit : inch

Termination	Shut Off	Straight Thru	Tubing Size Thread Size	Metric Unit	A	B	a/a'	b	Panel Opening
Dual Connector	STSZ95WZB	STSZ95WZKA	3/8" ID	9.5mm	1.97	1.18	—	—	—
	STSZ95WTB	STSZ95WTK	3/8" ID	9.5mm	—	—	2.16/1.97	.94	—
	STSZ79WZB	STSZ79WZKA	5/16" ID	7.9mm	1.97	1.18	—	—	—
	STSZ79WTB	STSZ79WTK	5/16" ID	7.9mm	—	—	2.16/1.97	.94	—
	STSZD64WZB	STSZD64WZKA	1/4" ID	6.4mm	1.97	1.18	—	—	—
	STSZD64WTB	STSZD64WTK	1/4" ID	6.4mm	—	—	2.16/1.97	.94	—



Couplings For Hybrid Connector	SD95WZBM	—	3/8" ID	9.5mm	1.93	.74	—	—	Φ .681
	SD95WTBM	—	3/8" ID	9.5mm	—	—	2.24	.814	Φ .681
	SD79WZBM	—	5/16" ID	7.9mm	1.826	.74	—	—	Φ .681
	SD79WTBM	—	5/16" ID	7.9mm	—	—	1.826	.814	Φ .681
	SDD64WZBM	—	1/4" ID	6.4mm	1.826	.74	—	—	Φ .681
	SDD64WTBM	—	1/4" ID	6.4mm	—	—	1.826	.814	Φ .681



Manual Relief Valve	KSXY64WBM	—	1/4" ID	6.4mm	3.031	.807	—	—	Φ .492
	KSXY47WBM	—	3/16" ID	4.7mm	3.031	.807	—	—	Φ .492
	KSXY32WBM	—	1/8" ID	3.2mm	2.716	.807	—	—	Φ .492
	KSXY64WB	—	1/4" ID	6.4mm	3.031	.807	—	—	—
	KSXY47WB	—	3/16" ID	4.7mm	3.031	.807	—	—	—
	KSXY32WB	—	1/8" ID	3.2mm	2.716	.807	—	—	—



Choke Plug	—	KSPD00WZ	—	—	1.303	.905	—	—	—
	—	KSPD00WT	—	—	—	—	.787	.787	—
	—	KSP00WT	—	—	—	—	1.062	.688	—
	—	QSD00WZ	—	—	1.37	.964	—	—	—
	—	QSD00WT	—	—	—	—	.972	.877	—



Coupling For Dispenser Machines	DJ47BZBM	—	3/16" ID	4.7mm	1.996	.736	—	—	Φ .551
	—	DJ32BTK	1/8" ID	3.2mm	—	—	1.681	.433	—



Micro Dual Connector	—	ST32WZKM	1/8" ID	3.2mm	1.765	1	—	—	Φ .681
	—	ST32WTK	1/8" ID	3.2mm	—	—	1.365	.70	—



SPECIAL SERIES

Unit : inch

Description

Part No.

Thread Size

Hole diameter

Lock Nut

SSD95	11/16-24	.452
SSD79	11/16-24	.413
SSDD64	11/16-24	.354
SKSPD64	1/2-24	.311
SKSJD64	M11*1	.381
SKSJ64	M9*1	.311
SKSJ40	M9*1	.255



Description

Part No.

Thread Size

Panel Mount
Nuts

CU11/16-24	11/16-24
CU1/2-24	1/2-24
CUM13*1	M13*1
P11/16-24	11/16-24
P1/2-24	1/2-24
CU7/16-24	7/16-24



Description

Part No.

Material

O-ring

DT0-ring	EPDM/FKM/SIL/NBR/AFLAS
XT0-ring	EPDM/FKM/SIL/NBR/AFLAS



Description

Part No.

d3 Size

Retaining Ring

H-17	.586
H-16	.555
H-13	.448



Description

Part No.

Dust Cap

FC7. 0*4. 0
FC8. 5*6. 0



ACCESSORIES



Check Valve Series

Micro-check valve is a type of directional control valve, which is used in micro-pipelines. Its main function is let the fluid flow in one direction but not return to the opposite. The check valve is wildly used, such as automotive industrial, medical equipment, food machinery, household appliances, laboratory equipment etc.

Features	Benefits
Small volume & Light weight	Easy installation & Convenient take away
Diversity sealing structure	Meet various piping system requirements
Provide a variety of materials	Suitable for different environment
Multiple tubing sizes	Suitable for various tubing sizes

Barb Style :



High Pressure :

It is used to connect the flexible pipeline, and barb is 40% bigger than the standard pipe line, and it can hold up to 8kg pulling power.



Easy Assembly :

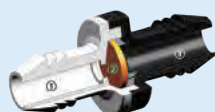
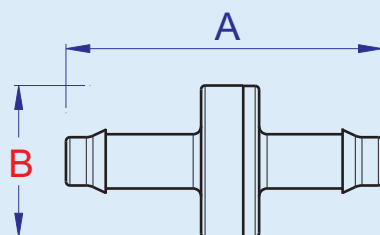
It is used for a slightly harder piping, and also suitable for low pressure flexible pipe line.

Materials :

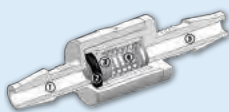
PP	
PA 66	
ABS	
PVDF	
POM	
PC	
PSU	
POK	

Category	Material	Color
GM	PA 66	Black/Natural
	ABS	Black/Natural
	PP	Black/Natural
	PVDF	Natural
	POM	Black/Natural
DZ	PP	Natural
	PVDF	Natural
DC	PA 66	Black/Natural
	POM	Black/Natural

Other material or color needs customized



- ① Inlet
- ② Sealing
- ③ Outlet



- ① Inlet
- ② Sealing
- ③ Steel ball
- ④ Spring
- ⑤ Outlet



- ① Inlet
- ② Sealing
- ③ Spring
- ④ Sleeve
- ⑤ Outlet

Check Valves



Unit : inch

Termination

Diaphragm Check Valve,
Simple structure,
Various tubing size,
Wildly used

Tubing Size

3/8" ID
5/16" ID
5/18" ID
1/4" ID
3/16" ID
1/8" ID
1/16" ID

Metric Unit

9.5mm
7.9mm
7.0mm
6.4mm
4.7mm
3.2mm
1.6mm

A

1.63
1.586
1.543
1.543
1.712
1.263
.893

B

.755
.755
.755
.755
.755
.755
.755



Spring Check Valve,
It needs certain opening pressure
to let the fluid through,
Can control and adjust the fluid.

1/4" ID
3/16" ID
1/8" ID

6.4mm
4.7mm
3.2mm

2.047
1.712
1.377

.511
.511
.511



Fuel Check Valve,
Commonly used in industrial applications
with high precision requirements and
can also be control and adjust the fluid.

5/16" ID
1/4" ID
3/16" ID
1/8" ID

7.9mm
6.4mm
4.7mm
3.2mm

2.433
1.63
1.59
1.59

.72
.72
.72
.72

GM - 95 - P - S - A

GM: Diaphragm Check Valve
DZ: Spring Check Valve
DC: Fuel Check Valve

3/8" ID (9.5mm) 1/4" ID (6.4mm)
5/16" ID (7.9mm) 3/16" ID (4.7mm)
5/18" ID (7.0mm) 1/8" ID (3.2mm)
1/16" ID (1.6mm)

A (PA66); B (ABS)
C (PC); F (PVDF)
K (POK); M (POM)
P (PP); U (PSU)
V (PVC)

S (SIL)
F (FKM)
E (EPDM)
N (NBR)

A (Barb)
L (Elbow)
S (Lock nut)
Z (Straight)
M (Thread)

Plastic Fittings

Plastic Tube Fittings with light weight, it's easy to take and handle comparing with metal ones, also with better resistance of impact and chemical corrosion.

Features	Benefits
Small volume & Light weight	Easy installation & Convenient take away
Various shape	Meet various piping system requirements
Provide a variety of materials(FDA)	Suitable for different environment
Multiple tubing sizes	Suitable for various tubing sizes

Shape :



"I"shape straight fitting



"I"shape straight reducer fitting



"L"shape elbow fitting



"T"shape fitting



"Y"shape fitting

Material :



PP



PA 66



PVDF



POM



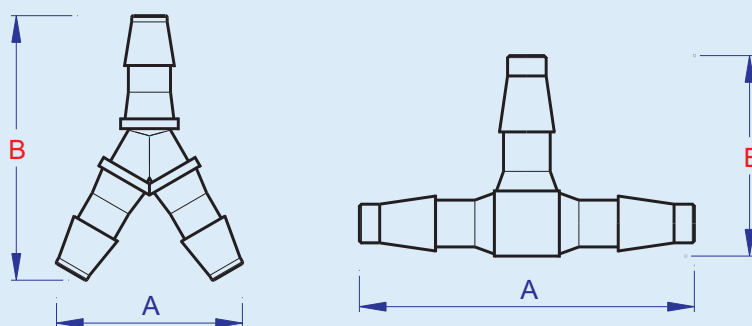
PC



PSU



POK



Plastic Tube Fittings

Unit : inch



Tubing Size	Metric Unit	A	B
1/16" ID	1.6mm	.342	.484
3/32" ID	2.3mm	.496	.72
1/8" ID	3.2mm	.653	.948
5/32" ID	4.0mm	.826	1.181
3/16" ID	4.7mm	1.0	1.41
1/4" ID	6.4mm	1.377	1.85
3/8" ID	9.5mm	1.763	1.862



1/16" ID	1.6mm	.65	.385
3/32" ID	2.3mm	.74	.448
1/8" ID	3.2mm	1.0	.61
5/32" ID	4.0mm	1.283	.814
3/16" ID	4.7mm	1.665	1.0
1/4" ID	6.4mm	2.023	1.2
3/8" ID	9.5mm	2.6	1.673
1/2" ID	12.7mm	2.606	1.649



1/8" ID	3.2mm	.61	.61
1/4" ID	6.4mm	1.204	1.204
3/8" ID	9.5mm	1.0	1.0



1/8" ID	3.2mm	.866	.275
1/4" ID	6.4mm	1.377	.456
3/4" ID	19.0mm	3.456	.897



3/16" ID-3/32" ID	4.7mm-2.3mm	1.0	.374
1/4" ID-1/8" ID	6.4mm-3.2mm	1.22	.492
3/8" ID-1/4" ID	9.5mm-6.4mm	1.716	.791
7/8" ID-3/8" ID	22.2mm-9.5mm	1.838	1.094

J - **Y** - **64** - **P**
 Plastic Fittings Y(Y shape);T(T shape) 1/2"(12.7mm) 5/32"(4.0mm) A(PA66);B(ABS)
 I(Straight);L(Elbow) 3/8"(9.5mm) 1/8"(3.2mm) C(PC);F(PVDF)
 1/4"(6.4mm) 3/32"(2.3mm) K(POK);M(POM)
 3/16"(4.7mm) 1/16"(1.6mm) P(PP)U;(PSU);V(PVC)



Membrane Filter

Membrane Filter is the same appearance as our GM series check valve. It can simply remove the fluid insoluble substance and tiny particles to prevent the pipeline blocked. Its internal filter structure can be optional precision microporous membrane. Microporous structure is a physical barrier can effectively intercept particles and microorganisms.

filter membrane :



10µm(1340目)



30µm(450目)



37µm(400目)



74µm(200目)



124µm(120目)



178µm(80目)

Material :



PP



PA 66



PVDF



PC

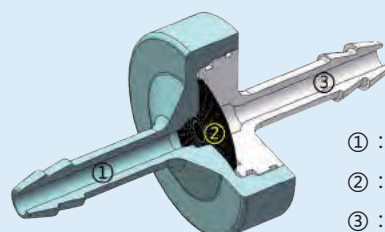
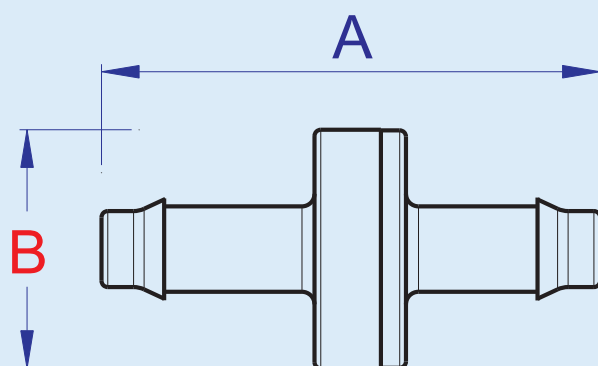


PSU

Features	Benefits
Small volume & Light weight	Easy installation & Convenient take away
Various precision filter membrane	Meet various fluid filtration requirements
Provide a variety of materials	Suitable for different environment
Multiple tubing sizes	Suitable for various tubing sizes

Standard Membrane Filter is shell and membrane in same material.

Material PC and PSU needs customized.



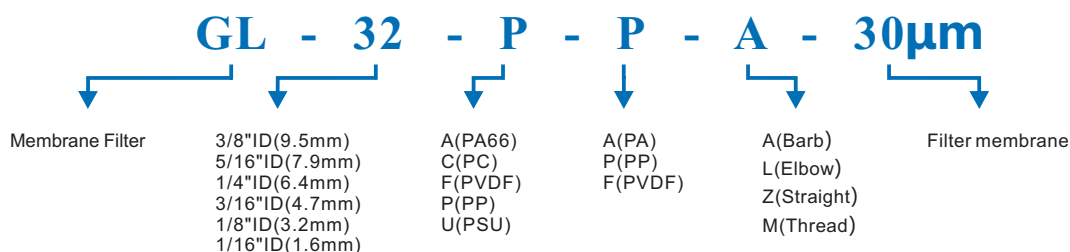
- ① : Inlet (Outlet)
- ② : filter membrane
- ③ : Outlet (Inlet)

Membrane Filter



Unit : inch

Tubing Size	Metric Unit	A	B
3/8" ID	9.5mm	1.63	.755
5/16" ID	7.9mm	1.586	.755
1/4" ID	6.4mm	1.543	.755
3/16" ID	4.7mm	1.712	.755
1/8" ID	3.2mm	1.263	.755
1/16" ID	1.6mm	.893	.755





Technical characteristics :
(Standard DIN EN 61 984)

Rated Voltage : 160V~1000V

Rated Current : 10A~40A

Rated Pulse Voltage : 2.5KV~8KV

Pollution Degree : 3

Number of Contacts :

2Pins、3Pins、8Pins、17Pins

Material :

Shell: PC+GF20%

Contacts: Silver-plated copper alloy

Temperature : -40°F~-257°F
(-40°C~-125°C)

Heavy Duty Connector

YRC® Heavy Duty Connector, We jointly developed it with Bayer(Germany) and some domestic well-known electrical plug-in manufacturers based on import products. The body material is electrical grade Polycarbonate(PC), electrical strength up to 36KV/mm, flame retardant grade V-0. The internal electric pin silver plating layer up to 2μm, the electric conductivity and Salt Spray test is comply with relevant standards, and 10,000 times plug testing without deformation, and still maintain excellent electric conductivity. This connector is certified by CE, ROHS, UL, etc. It is the most cost-effective heavy duty connector.

Features

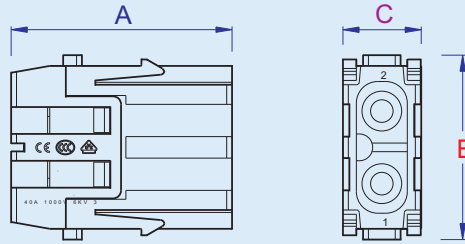
Reliable Body Material Excellent electrical insulation performance

Excellent Terminals

Stable Current Transmission

Compatibility

Matched with other brand connectors



Heavy Duty Connector

Unit : inch

Model	A	B	C	Panel Opening
YRCHC-002. A-M	1.606	1.358	.571	1.2 * .59
YRCHC-002. A-F	1.618	1.358	.571	1.2 * .59
YRCHC-003. A-F	1.755	1.342	.571	1.2 * .59
YRCHC-003. A-M	1.692	1.342	.571	1.2 * .59
YRCLC-008. A-M	1.405	1.346	.571	1.2 * .59
YRCLC-008. A-F	1.366	1.346	.571	1.2 * .59
YRCLC-017. A-M	1.342	1.338	.571	1.2 * .59
YRCLC-017. A-F	1.382	1.338	.571	1.2 * .59



LOGO
YRC
 -
 LC/HC
 -
 002
 -
 A
 -
 M/F
 Low Voltage/ High Voltage
 Rectangle Series

Contacts

P: Male J: Female

Model	Working Current	Working Voltage	Wire Gauge	Stripping Length	Terminal
YRCHC-SD-P	40A	1000V	2.5~10mm ²	5~11mm	Tin soldering
YRCHC-SD-J	40A	1000V	2.5~10mm ²	5~11mm	Tin soldering



YRCHC-SD2-P	40A	1000V	2.5~10mm ²	5~11mm	Tin soldering
YRCHC-SD2-J	40A	1000V	2.5~10mm ²	5~11mm	Tin soldering



YRCHC-002-P	40A	1000V	2.5~10mm ²	5~11mm	Screw Terminal
YRCHC-002-J	40A	1000V	2.5~10mm ²	5~11mm	Screw Terminal



YRCHC-003-P	40A	500V	2.5mm ²	9mm	Tin soldering
YRCHC-003-J	40A	500V	2.5mm ²	9mm	Tin soldering



YRCLC-008-P	16A	400V	1mm ²	7.5mm	Tin soldering
YRCLC-008-J	16A	400V	1mm ²	7.5mm	Tin soldering



YRCLC-017-P	10A	160V	1.5mm ²	8mm	Tin soldering
YRCLC-017-J	10A	160V	1.5mm ²	8mm	Tin soldering



Tools

Product Name	Model	Length
Extraction Tool	YRC-T3	5.314



Product Name	Model	Length
Extraction Tool	YRC-T8	5.314



Product Name	Model	Length
Extraction Tool	YRC-T17	4.724



Product Name	Model	Specification
Allen Wrench	YRC-N2#	2#



Product Name	Model	Wire Gauge
Crimping Pliers	YRC-LY	1.5-6mm ²





Hybrid Connector

Hybrid connector combined electricity, air and fluids in one module, and not interfere with each other during working. Enable one-hand disconnect and connect with host. We cancelled the thumb latch on the fluid connector and add switch on the integral enclosure. The electric circuit use our YRC[®] Heavy Duty Connector to make it more safer.



Specification:

Pressure : Vacuum to 120psi,
0.8Mpa

Temperature : 14°F~176°F
(-10°C~80°C)

Materials :

Body material : ABS

Inner Plate : ABS

Spring : SUS316

Wetted coupler : POM

Electrical Contacts : PC+GF20%

Gas Contacts : POM


O-ring : EPDM

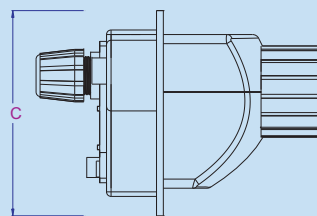
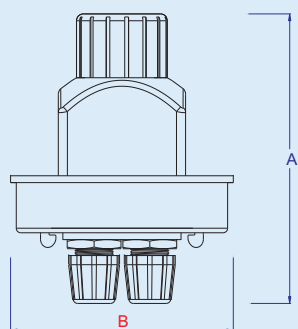
Elec contact : Silver-plated copper alloy

Tubing ID size : 1/4"ID, 5/16"ID, 3/8"ID
(6.4mm ID, 7.9mm ID, 9.5mm ID)

Color : White Color or Customized

Features	Benefits
Switch placed on the housing	More convenient and secure operation
Integrated three workflows in one	The clear pipeline replaced the complex one
New water route connector	Double O-ring sealed, more secure
High quality heavy duty connector	Current transmission is more stable
Multiple tubing sizes	Suitable for various tubing sizes
Optional configuration	Meet more industry needs

 **The circuit up, fluid line down when installation.**
Free sample is available!



Hybrid Connector

Unit : inch

Description	Model	A	B	C	Air line tubing size	Electrical Matching
Abandoned use the internal water connector as the switch to connection and disconnection.	SD-1-95	5.118	3.858	3.543	---	Low Voltage:YRCLC-010.A-F/M
	SD-1-79	5.0	3.858	3.543	---	High Voltage:YRCHC-SD-P/J
	SD-1-64	5.0	3.858	3.543	---	YRCHC-SD2-P/J



Based on SD-1, the low-voltage circuit connector is upgraded and added the air line connector.	SD-1S-95	5.118	3.858	3.543	3/16" ID	Low Voltage:YRCLC-017.A-F/M
	SD-1S-79	5.0	3.858	3.543	3/16" ID	YRCLC-008.A-F/M
	SD-1S-64	5.0	3.858	3.543	3/16" ID	High Voltage:YRCHC-SD-P/J



Shape changed, high and low voltage circuit connectors have been upgraded, also added air line connector.	SD-2-95	6.811	2.165	4.921	3/16" ID	Low Voltage:YRCLC-017.A-F/M
	SD-2-79	6.692	2.165	4.921	3/16" ID	YRCLC-008.A-F/M
	SD-2-64	6.692	2.165	4.921	3/16" ID	High Voltage:YRCHC-002.A-F/M



Shape changed, circuit construction and water connector changed, added air line connector.	SD-3-95	5.787	2.397	5.71	3/16" ID	Low Voltage:YRCLC-017-P/J
	SD-3-79	5.787	2.397	5.71	3/16" ID	High Voltage:YRCHC-003-P/J



Based on SD-3, this circuit is connected in modular.	SD-3S-95	5.787	2.397	5.71	3/16" ID	Low Voltage:YRCLC-017.A-F/M
	SD-3S-79	5.787	2.397	5.71	3/16" ID	YRCLC-008.A-F/M

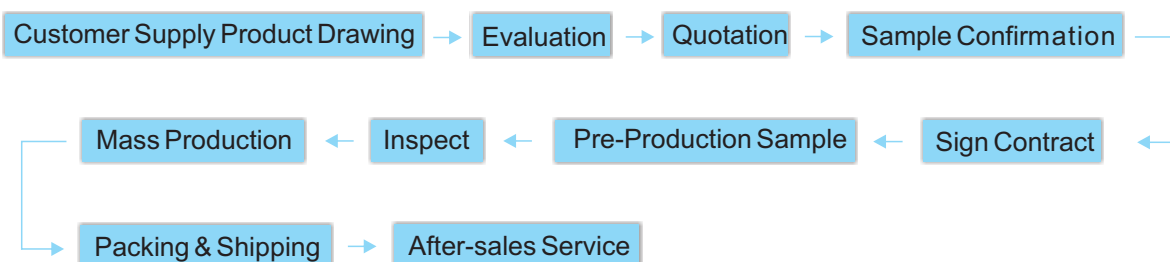


OEM/ODM

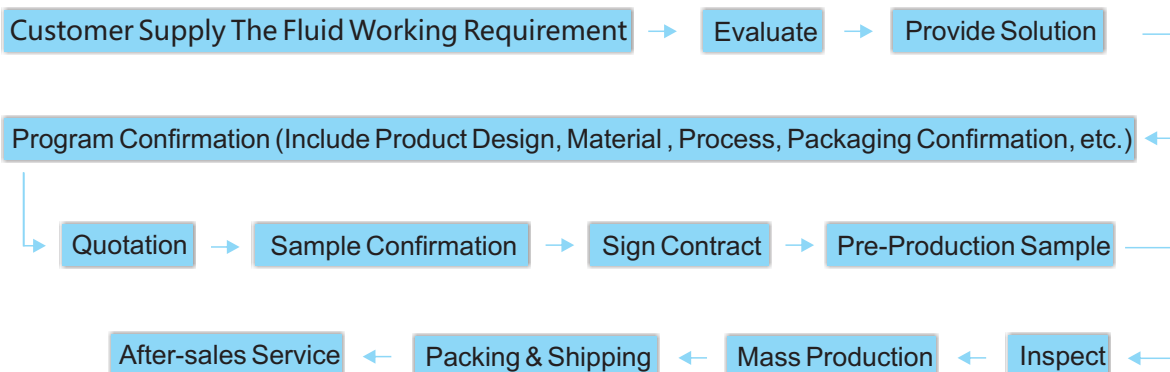
YRC® supply high-quality products, good service and reasonable price. Our company professionally undertake mould manufacturing, precision injection molding, manual assembly, ultrasonic welding, machinery manufacturing and other OEM processing business. Over a decade working experience in miniature connector fields, our products are widely used in medical, beauty, electronics, automobiles, electricity, industrial, laser industry, scientific research and many other fields.

Our company has advanced mold processing equipment like brand Beijing Jingdiao, NOVICK, SMTCL, KENT Grinder, Taiwan CMP etc. All the injection molding machine is brand Haitian. In order to meet industry requirements, we customized three high temperature injection machine which can process PSU and PEI etc special engineering plastics. In the ultrasonic welding workshop, equipped with brand Branson Ultrasonics & Maxwide Ultrasonic machines totally 20 units. In order to guaranteed quality, we customized automated air sealing test equipment from SMC. Besides, we also have YVM, Tensile strength detector, Tribometers and Mechanical Testers, hardness testing device, Infrared thermal imager etc. Many professional production and commissioning technicians, so we can produce all kinds of plastic or aluminum parts in mass production. Quality assurance is based on 16 years of processing industry technical experience.

OEM PROCESS



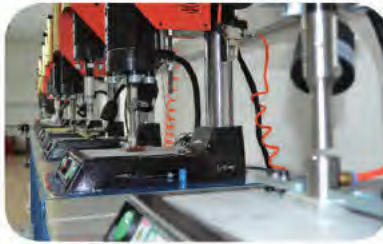
ODM PROCESS



OEM/ODM

YRC® Leader of China Miniature Pipe Fittings

YRC® has nearly 10 years of experience in fluid product design, and we provided many reliable solutions to domestic and foreign companies, which involving medical, beauty, food, electronic machinery and many other fields. We have six senior designers, all of them with innovative thinking and first-class design level, they use of Pro-E, SolidWorks, UG, CAD and other software to evaluate and develop products.



APPLICATION

YRC has nearly 10 years of development history and more than 300 customers around the world, and provided many latest solutions to various industries. The products are all over the medical industry, life sciences, food industry, laser beauty, chemical industry, automation machinery, printing equipment, and many other areas. Mainly used in blood pressure, blood oxygen monitoring module and blood gas rehabilitation equipment, biochemical testing and analysis equipment, dialysis water treatment and reuse equipment, breathing anesthesia equipment, treatment table, incubator, biological engineering, circulating water cooling and other management systems. And also used in other industrial which with small diameter piping, such as Ink-Jet coders, ink supply system, water quality online analytical instruments, laboratory equipment, food machinery, fermentation systems, electroplating equipment, PCB process equipment, chemical equipment, packaging machinery, water treatment and disinfection equipment, inflatable products, aquarium, engine launch system and so on.

Industrial Equipment



Hydraulic System



Water-cycling System



Hydrogen Generator



Fogging Apparatus



Water Treating Equipment



Ozone Generator

Daily Application



Aquarium



Water Dispenser



Coffee Machine



Refrigerator



Water Purifier



Ozonizer

Medical Equipment



Cold Therapy Equipment



Aneroid Sphygmomanometer



Hemodialysis Delivery Systems



Air Bed



Hemodialysis Water Treatment System



Medical Tourniquet

Apparatus



Dispenser Machine



Ink Jet Device



Chemical Analysis Instrument



Water-cooling System



Beauty Apparatus



Hybrid Connector

SUPPLIERS



Bayer



Lee Spring®



Minnesota
Rubber & Plastics
Quadion LLC



MISUMI

AsahiKASEI
旭化成集团



EVONIK
INDUSTRIES

lyondellbasell



SOLVAY
asking more from chemistry®



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Industrial Automation
BRANSON

CUSTOMERS



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Youdo Bio



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北京理工大学



TOPLASER
泰富瑞泽

KD Navien
庆东纳碧安



MATERIAL

Material Description :

Polyethylene (HDPE)

Advantages: Good endurance to resist coldness, chemical stability. It's not soluble any organic solvent in room temperature. Excellent resist to acid, alkali, salt chemical corrosion. The melting point is about 266°F. The maximum operating temperature is 172°F. Besides, it is with good toughness and stiffness also with dielectric properties.

Disadvantages: The mechanical properties is not good, and easy to deformation, aging, brittle, stress cracking. And low surface hardness is low, easy to scratch. It needs surface discharge treatment to printing. Not allowed plating.

Polypropylene (PP)

Advantages: With high impact resistance, tough mechanical properties, resist to a variety of organic solvents and acid corrosion. Highest heat resistance in the general thermoplastic. The melting point of 372°F. It can be long term use in 212°F.

Disadvantages: High brittleness in low temperature, poor aging performance.

Polyvinyl chloride (PVC)

Advantages: With excellent mechanical properties, hardness, chemical resistance, and can withstand most of the inorganic acid, alkali, most organic solvents and inorganic salts. Good electrical insulation, easy printing and welding. And the plasticizer can adjust its soft and hardness, but the mechanical properties will be reduced with the plasticizer increases. PVC with flame retardant function, Suitable working temperature is between 140-158°F.

Disadvantages: Poor thermal stability and impact resistance, also not resist aging and coldness. The processing performance is not good.

Acrylonitrile Butadiene Styrene (ABS)

Advantages: With fine wear-resistant, oil resistance and good stability. it can be used at -40-212°F.

Disadvantages: Poor weather resistance, easy decomposed under ultraviolet light. If stay half year in the outdoors, the impact strength decreased half. Chemical performance is greatly influenced by temperature.

Polystyrene (PS)

Advantages: High transparency, the light transmittance up to 90% or more, good electrical insulation, easy to color, good processing flow. PS is hard and brittle, it's with highest tensile strength and bending strength in the general thermoplastic. HDT is about 176°F, Suitable working temperature is 140-176°F.

Disadvantages: Not suitable for outdoor use.

Polyamide (Nylon PA)

Advantages: Good wearing resistance, self-lubricating, mechanical properties, oil resistance, good gas barrier, and endurance.

Suitable working temperature is 212°F.

Disadvantages: Hygroscopicity, and not resist acid and alkali. The rate of dimensional is large in humid environment.

Polycarbonate (PC)

Advantages: With high impact-resistance, transparency, excellent mechanical properties, electrical insulation, high dimension stability, resist most organic acid and ozone. Which is a plastic material combine solid, hard and tough together. The using temperature range -202-266°F. It can be long-term use at 230°F.

Disadvantages: Hygroscopicity, difficult process. Not resistant to alkali, low fatigue resistance, friction and wear resistance is not good.

Polyoxymethylene (POM)

Advantages: Excellent mechanical properties and rigidity, which is the ideal material to replace metal. Good resistance to fatigue and creep resistance, wear resistance, self-lubricating and friction are good, and thermal stability and chemical stability is also good, excellent electrical insulation. Hot deformation temperature is 255°F, can be used at 248°F for short-term use.

Disadvantages: Not resist acid and cannot work for a long time in high temperature. The shrinkage is large and unstable, poor dimensional stability, poor weather resistance, if working under ultraviolet light long time, the mechanical properties will decline, and the surface will be cracking.

Polyketone (POK)

Excellent chemical and abrasion resistance. Abrasion is 14 times of POM. The heat distortion temperature is 392°F. It has excellent barrier properties, impact strength and toughness for gases and hydrocarbons. It's an ideal material instead of PA (nylon) or POM.

Polysulfone (PSF/PSU)

PSF/SU with high heat resistance, which can be used at -148-302°F for a long-term, mechanical properties, creep resistance and electrical properties are very good. Resistant to inorganic acids, alkali and salt. But not resistant to sulfuric acid and nitric acid. Excellent resistance to radiation, but weatherability and resistance to ultraviolet light is not good.

Polyetherimide (PEI)

PEI with excellent mechanical and dielectric properties. It is with high heat resistance, heat distortion temperature up to 392°F, and at 338°F can be long-term use, resistance chemical corrosion, ultraviolet radiation, good water stability, flame retardant. It's easier to process than polyimide (PI).

Polyvinylidene fluoride (PVDF)

PVDF with the characteristics of fluorine plastic and general purpose resin, good resistance to chemical corrosion, high temperature, oxidation, weatherability, radiation resistance, but also has a piezoelectric, dielectric, thermoelectric, etc.. Its mechanical properties are the most superior in fluorine plastic. Which is can be long-term used in the -40-302°F.

Chemical Compatibility Table

CHEMICAL COMPATIBILITY TABLE

CHEMICAL	Formula (CAS#)	PP	HDPE	PVDF	PTFE	POM	ABS	PSU	PC
Acetic Acid 醋酸	C2H4O2	A	AB	A	A	A	AB	A	A
Acetone 丙酮	CH3COCH3	A	C	A	A	A	D	A	A
Ammonia (Aqueous) 氨 (水)	NH3	A	BC	A	A	AB	B	AB	D
Aqua Regia 王水、硝基鹽酸	HCL-HNO3	C	D	A	A	D	D	D	D
Benzene 苯	C6H6	AB	A	A	A	A	D	D	D
Bleach 漂白劑	CLNaO	A	A	A	A	A	BC	A	A
Calcium Carbonate 碳酸鈣	CCaO3	A	A	A	A	A	N	N	C
Carbon Dioxide Gas 二氧化碳氣體	CO2	A	A	A	A	A	B	N	A
Chlorine 氯氣、液氯	CL2	D	A	A	A	D	D	D	D
Citric Acid 檸檬酸	C6H8O7	A	A	A	A	AB	A	A	A
water 水	H2O	A	A	A	A	A	A	A	N
Ethyl Alcohol 酒精	C2H5OH	A	A	A	A	A	AB	A	A
Gasoline 汽油		D	D	A	A	A	D	A	C
Glycerin 甘油	C3H8O3	A	A	A	A	A	AB	A	A
Honey 蜂蜜		A	A	A	A	A	B	N	A
Hydrochloric Acid 鹽酸	HCL	A	A	A	A	A	AB	A	A
Hydrogen Peroxide 雙氧水	H2O2	A	A	A	A	B	A	A	A
Iodine 碘、碘酒	I2	A	A	A	A	A	N	D	D
Nitric Acid 硝酸	HNO3	A	A	A	A	D	B	A	A
Nitric Oxide (Gas) 一氧化氮 (氣體)	HNO	D	A	N	A	N	B	N	D
OILS LUBRICANTS, General 潤滑油		BC	A	A	A	A	B	A	A
Oil, Mineral 石油		A	C	A	A	A	AB	AB	A
Oil, Olive 橄欖油		A	A	A	A	A	A	A	A
Ozone 臭氧	O3	D	B	A	A	D	BC	A	AB
Plating Solution, Chrome 電鍍液 (鉻)		B	A	A	A	C	CD	N	A
Plating Solution, Nickel 電鍍液 (鎳)		A	A	A	A	N	N	N	N
Plating Solution, Zinc 電鍍液 (鋅)		N	A	A	A	N	N	N	N
Potassium Permanganate 高錳酸鉀	KMnO4	A	A	A	A	A	BC	A	A
Sodium Hypochlorite 次氯酸鈉	NaClO	A	A	A	A	D	BC	A	A
Sulfuric Acid 硫酸	H2SO4	A	A	A	A	A	A	A	A
Toluene 甲苯	C7H8	D	AB	A	A	A	D	D	D
Urea 尿素	CH4N2O	A	A	A	A	A	C	C	D

Marks: (A)Excellent; (B)Good; (C)Fair; (D)Poor; (N)No Data

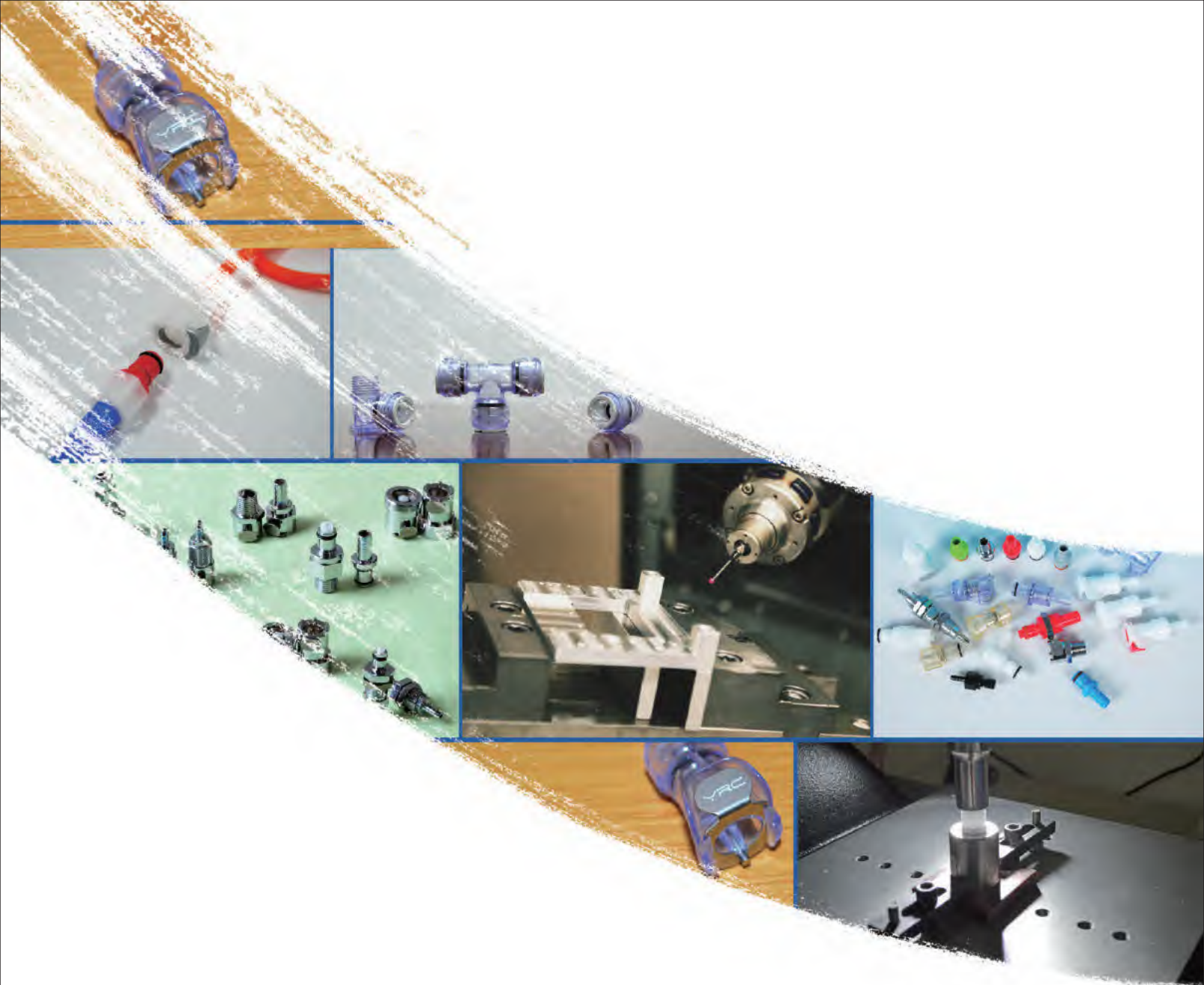


The chemical compatibility table is made by immersing the plastic product into a chemical solvent or powder for 30 days, then get the conclusion by compare the "deformation" and "Intensity" before and after. Due to the quality of the chemical, the manufacturer, the test temperature, the concentration and so on, it is may different from the possible type in the practical application. So this table is only suitable for reference, do not have authority. We suggest customer apply sample for testing.

RUBBER PROPERTY SHEET

Property Material	Abrasion Resistance	Chemical Resistance	Weather Resistance	Oil Resistance	Heat Resistance	Cold Resistance	Acid Resistance	Alkali Resistance	Ozone Resistance	Tensile Strength
丁腈橡胶 NBR	○	○ △	△	◎	248°F	-40°F	△	○	△	◎ ○
三元乙丙 EPDM	○	◎	◎	×	302°F	-58°F	◎ ○	◎	◎	◎ ○
硅矽橡胶 VMQ	×	◎ ○	◎	○ △	428°F	-94°F	△	△	◎	×
氟素橡胶 FKM	◎ ○	◎	◎	◎	392°F	-4°F	◎	◎ ○	◎	◎ ○
四丙氟橡胶 AFLAS	◎ ○	◎	◎	◎ ○	446°F	28°F	◎	◎	◎	◎ ○
全氟橡胶 FFKM	◎	◎	◎	◎	608°F	14°F	◎	◎	◎	◎ ○

Marks: ◎ Excellent; ○ Good; △ Fair; × Poor



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