



倍仕得电气科技(杭州)股份有限公司
BEISIT ELECTRIC TECH (HANGZHOU) CO.,LTD.



SCB/SDB Fluid Connector

Beisit factory Aeroview



做人，把人品做好。
做企业，把产品做好。

董事长：

郑永

Product Collection



Brand Definition



"I" stands for "Integrity"

"I" stands for "International"

"BEST": Best

Functions as an international company of high integrity whose mission is to provide customer with finest products and services

倍仕得

pronounced as "bei", means "more", gathering more talents; mastery of work comes from more diligence; developing with high efficiency.

pronounced as "shi", means "talents", a person with ability and integrity; Both enterprise and individual should have a bright future, indicating the idea of people-oriented.

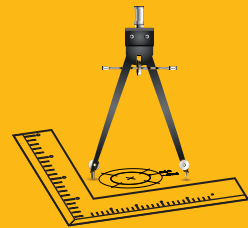
pronounced as "de", means "possess", to create and possess higher value.

Gather a large number of talents, and create a glorious future

Quick Fluid Connector Purification Workshop

BEISIT®

Design and Manufacture of Precision Cutting Tools.



Design and Manufacture of Precise Cutting Tools



Design and Manufacture of Precision Cutting Tools

The machining accuracy can be accurate to 0.01mm

3days to provide metal samples

7days to deliver samples



Company Certifications



Informatization System



Efficient and fast Informatization system.



Testing Center



The raw materials:metal material testing

The sealing:anti-aging test,hardness testing

The spring:fatigue test,spring force detection



High and Low Temperature Alternating Humid Heat Test Chamber



Flow resistance tester



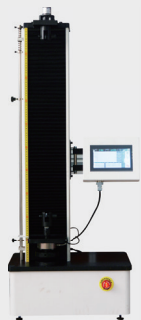
Automatic digital display spring fatigue testing machine



Machined parts:roughness detection,dimensional measurement

Surface treatment:film thickness detection,salt spray test

Product:withstand voltage test,sealing test,flow coefficient test,connection and separation force test,durability test,sinimum burst pressure test,high temperature test,low temperature test,interchangeability test



Automatic digital display spring tension pressure testing machine



Neutral Salt Spray Tester

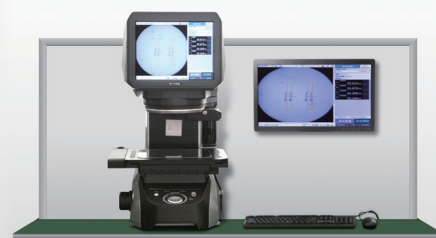
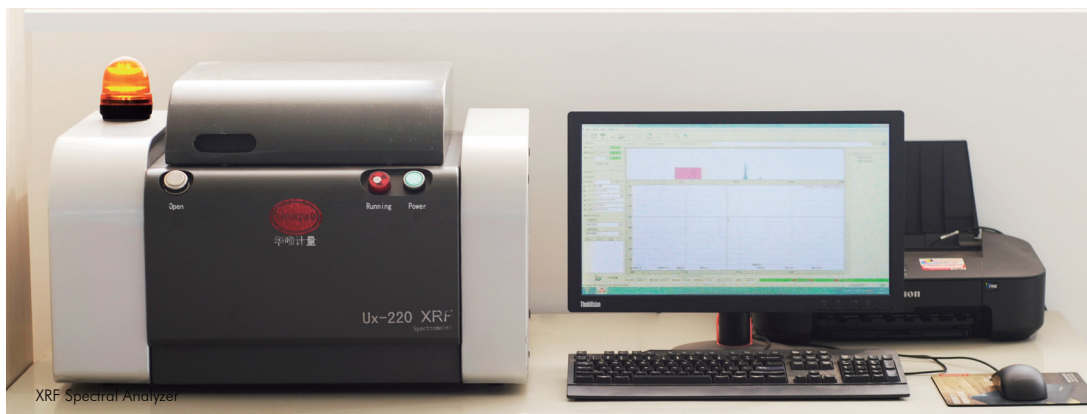


Image dimension measuring instrument



Air tightness tester



XRF Spectral Analyzer

Corporate Culture



Mission: To supply most reliable connectors for global industry.

Customer Value: Revere clients; Never waver in determination to create unique value for our clients.

Quality Value: Quality as life, only once. Never waver in determination to produce 100% qualified products.

A background image of the Earth from space, showing the Americas. Overlaid on the globe are numerous glowing blue dashed lines that represent a global network or data connections, crisscrossing the planet.

Linking with the World
Connecting to the Future

SCB SDB SCB/SDB Fluid Connector



Safe & Environmental

- Bi-directional flat sealed design that ensures no leakage during connection and disconnection.
- Flat seal design, which is easy to clean and avoids contamination of the medium.
- Plug and Socket are equipped with protective caps to prevent the sealing surface from being polluted during transportation.
- Please contact us if you have requirement for pressure relief after disconnection.

Stable & Reliable

- The selected material combined with unique surface treatment not only makes the product sturdy and reliable, but also achieving high corrosion resistance and wear resistance.
- Various sealing material O-rings are available to meet the temperature requirements of different media and guarantee long-term stable & and reliable sealing performance.
- The radial design of the O-ring at the connection of the Plug and Socket ensures that the sealing function has been completed before the valve is opened during connection.

Convenient

- The blade-type cold plate makes the installation of the cold plate convenient and quick.
- Couplings with various deviation correction parameters are available according to the application environments.
- Compact structure occupies the minimum installation space.
- Details drawings for different models can be offered.

Customized

- Providing customized couplings with various materials.
- Providing customized thread and flange.
- For other customization requirements, please contact us freely.

SCB SDB SCB/SDB Fluid Connector



Application Fields

- Military defense, Aerospace and other fields
- Medical equipment
- Data center, Supercomputer
- Electronic communication

Applicable Fluid Types

- Coolant
- Glycol Water
- Heat transfer oils
- Esters
- Kerosene

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Part Numbers

SCB 03S M14M - SS - NB

Seals

EP	Ethylene Propylene Rubber EPDM	FF	Highly Fluorine Rubber FFKM
NB	Nitrile Rubber NBR	CR	Neoprene CR
FM	Fluorocarbon Rubber FPM/FKM/Viton		
FV	Fluorosilicone Rubber FVMQ		

Material

AL	Aluminum (Standard, no code)
SS	Stainless Steel 316L
BR	Brass With Nickel Plated
SA	Stainless Steel 304

Male and Female Threads

F	Female Thread
M	Male Thread

G Thread Size

18	G18"	34	G34"
14	G14"	32	G1 1/2"
38	G38"	01	G1"
12	G12"		

M Thread Size

08	M8 Thread
12	M12 Thread
21	M21 Thread
F3636	Flange hole 36x36

Connection method

G	G Thread
M	M Thread
F	Flange

Coupling Type

S	Socket
P	Plug

Equivalent Diameter

03	3mm
05	5mm
08	8mm
12	12mm

Initial Are Defined

B	Automatic Connecting With Flat Face Seal
S	Without Locking Mechanism
T	Others

Example

BBT	Bayonet Locking Mechanism
BTG	Tri-Curve Groove Locking Mechanism
BSL	Auto Steel Ball Locking Mechanism
SCB	Blind-Mate, Without Lock Mechanism
SDB	Coaxial Correction Function Blind-mate, Without Locking Mechanism
TPP	Semi-auto Steel Ball Locking Mechanism
TSF	Screw Locking Mechanism
TPB	Push-Button Locking Mechanism With Needle Valve

Selection of sealing materials

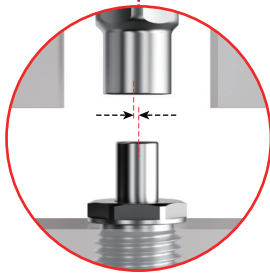
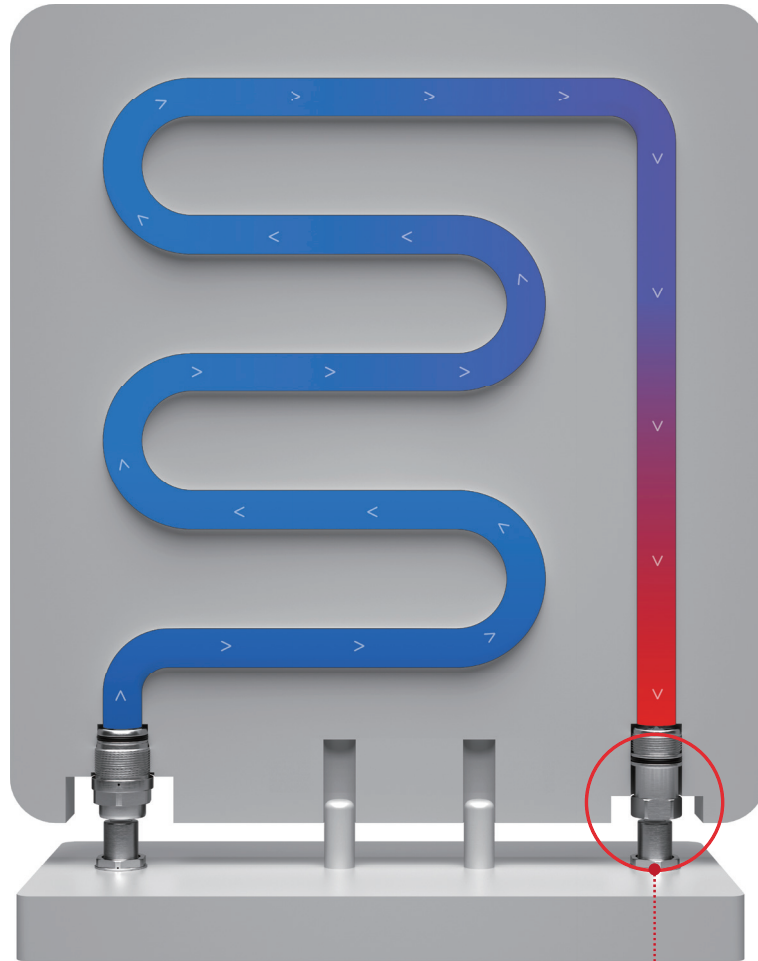
Material	Code	Working temperature	
NBR	NB	-15 ~ + 100 °C	1. General applications. 2. High mechanical strength.
FPM、FKM、Viton	FM	-10 ~ + 200 °C	1. Good chemical resistance. 2. Outstanding resistance to high temperatures up to 200 °C . 3. Resistance to mineral oils, synthetic hydraulic oils, fuels, chemicals,hydrocarbons and coolants.
EPDM	EP	-20 ~ + 150 °C	1. Excellent resistance to high temperatures. 2. Compatible with phosphate-based brakefluids - esters, hot and cold water, steam. 3. Pay attention to the use of mineral oil in the components of the medium circuit
FFKM	FF	0 ~ + 250 °C	1. Combines the qualities of an elastomer with the chemical resistance of PTFE. 2. Remarkable resistance to heat and most chemical agents including inorganic and organic acids. 3. Coolants.
FVMQ	FV	-45 ~ + 175 °C	1. Max. working pressure: 50 bar. 2. Good resistance to low and high temperatures. 3. Resistance to mineral oils, fuels.
PTFE	PT	-50 ~ + 200 °C	1. Max. working pressure: 80 bar. 2. Excellent chemical resistance. 3. Very good resistance to low and high temperatures. 4. Superior performance to elastomers.
CR	CR	-40 ~ + 100 °C	Good resistance to ageing and refrigerant.

In order to choose the solution that best meets your application needs, it is recommended to provide us with the following accurate information:

1. Fluid type 2. Work pressure 3. Working temperature 4. Salt and acid concentration of aqueous solution 5. Special usage conditions

If you need any inquiries, please feel free to contact our technical experts.
Our experienced quick connector experts provide you with the most thoughtful service.

Floating Blind-Mating fluid connector



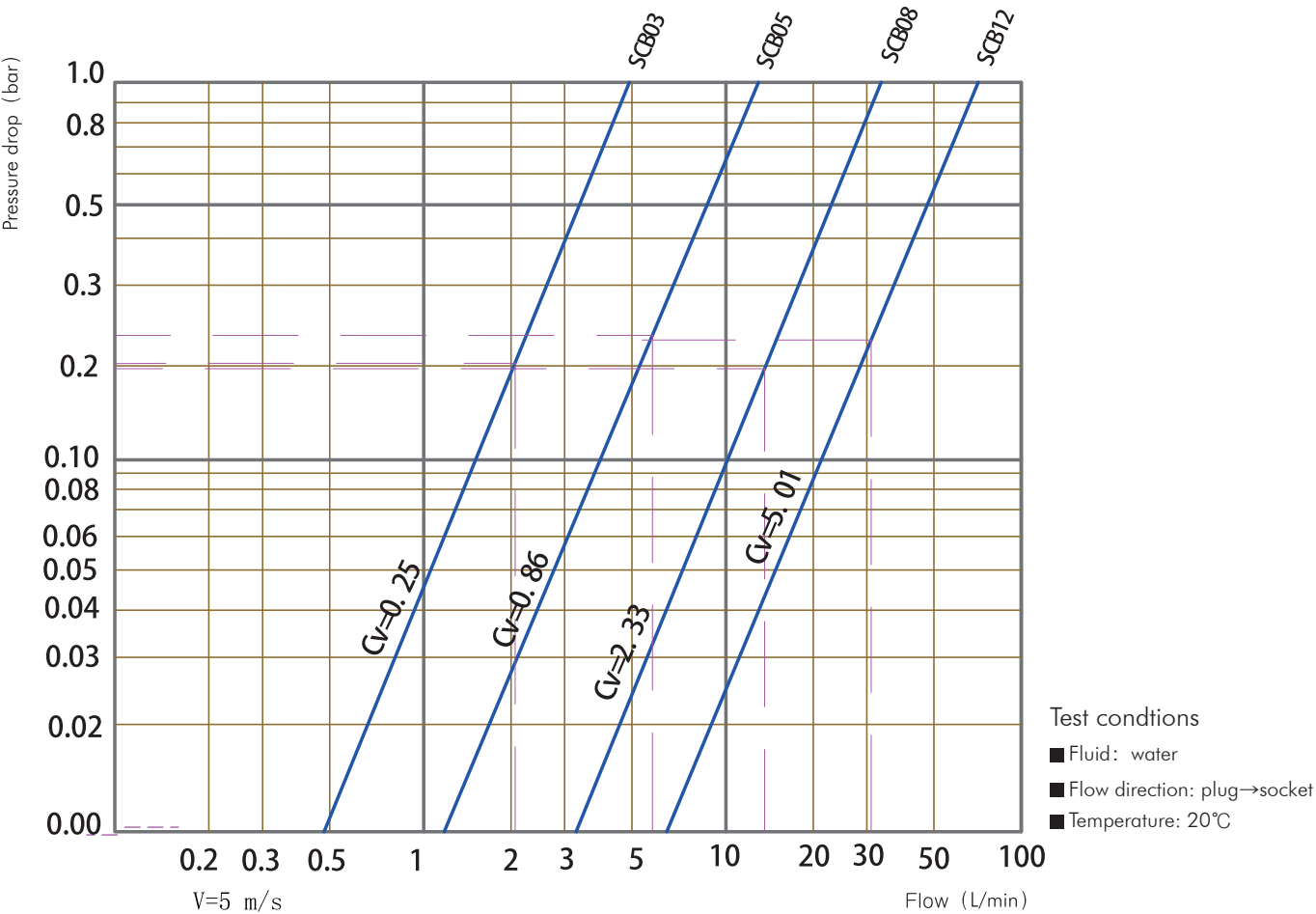
Plugs and sockets can float, The maximum misalignment error $D \leq 0.5\text{mm}$
 The maximum misalignment error of SCB03 $D \leq 0.4\text{mm}$

Technical Parameter



Regular Type				
Product model	SCB03	SCB05	SCB08	SCB12
Nominal Working Pressure (bar)	20	20	20	20
Cv (USgas/min)	0.25	0.86	2.33	5.01
Nominal Working Flow Rate (L/Min)	2.12	5.89	15.08	33.93
Leakage of single plugging (ml)	0.002	0.005	0.012	0.02
Connection force without pressure (N)	30	60	90	150

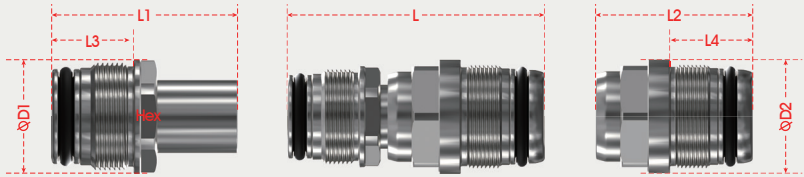
SCB Pressure Drop/Flow Rate Chart



→ SCB03

Plug and socket connection diagram

$L=L1+L2-X$
 $X=8.0\pm0.5$



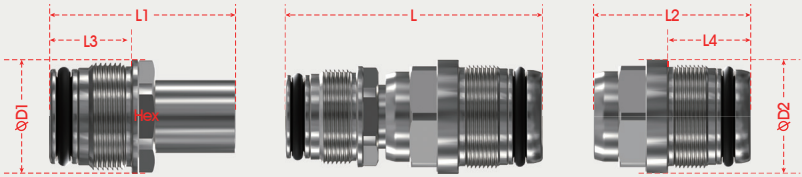
	Picture	End Fitting Type	L1	L2	L3	L4	D1	D2	Hex	Product model
Plug		M10 x 0.75	24	/	12	/	11.5	/	10	SCB 03P M10M
Socket		M10 x 0.75	/	23	/	12	/	15	13	SCB 03S M10M

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→ SCB05

Plug and socket connection diagram

$L=L1+L2-X$
 $X=14.2\pm1.0$



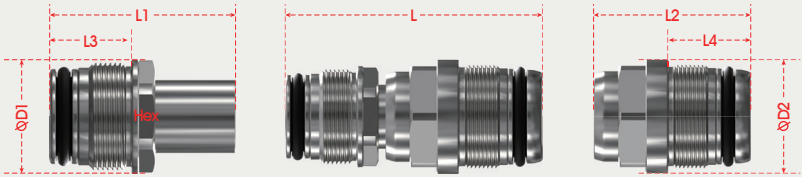
	Picture	End Fitting Type	L1	L2	L3	L4	D1	D2	Hex	Product model
Plug		M16 x 0.75	37.6	/	17	/	17.5	/	15	SCB 05P M16M
Socket		M19 x 1.0	/	35	/	20	/	21.5	19	SCB 05S M19M

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→ SCB08

Plug and socket connection diagram

$L=L1+L2-X$
 $X=15.0\pm1.0$



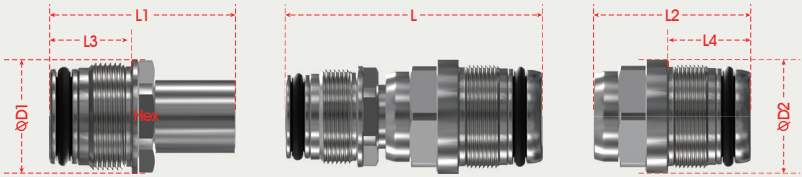
	Picture	End Fitting Type	L1	L2	L3	L4	D1	D2	Hex	Product model
Plug		M21 × 1.0	38.5	/	17	/	23.5	/	21	SCB 08P M21M
Socket		M25 x 1.0	/	38.5	/	20.5	/	27.8	24.5	SCB 08S M25M

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→ SCB12

Plug and socket connection diagram

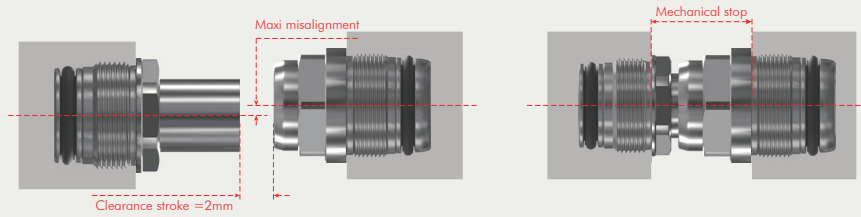
$L=L1+L2-X$
 $X=20.5\pm1.0$



	Picture	End Fitting Type	L1	L2	L3	L4	D1	D2	Hex	Product model
Plug		M29 × 1.5	54	/	24	/	34	/	30	SCB 12P M29M
Socket		M35 x 1.5	/	58	/	32.5	/	40	36	SCB 12S M35M

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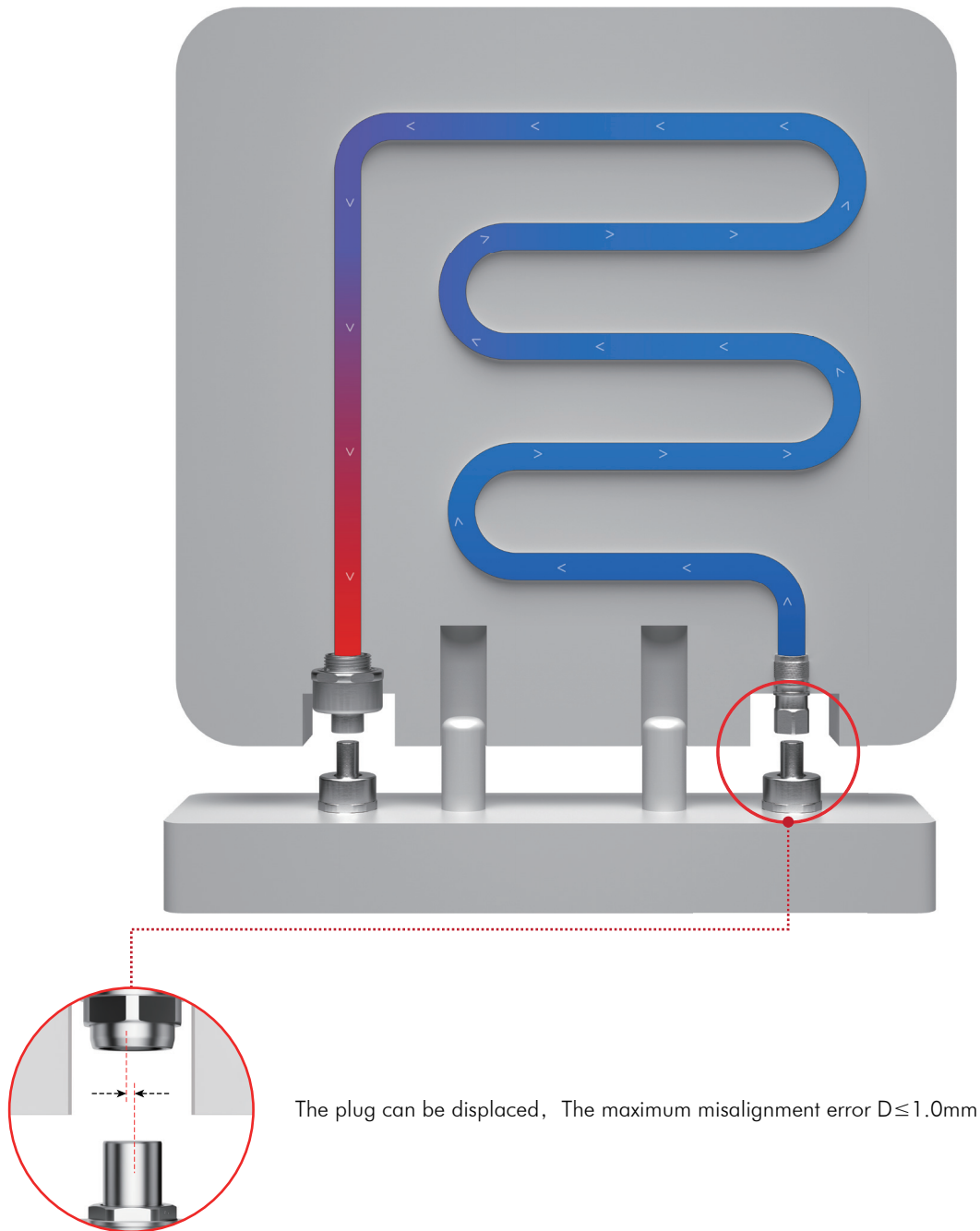
SCB Range installation



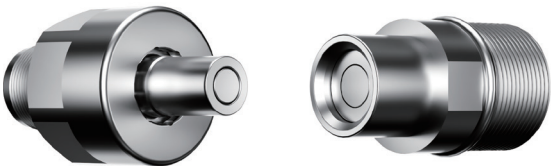
Product model	SCB03	SCB05	SCB08	SCB12
Maxi misalignment (mm)	0.4	0.5	0.5	0.5
Mechanical stop (mm)	15.0 $\pm$ 0.5	21.4 $\pm$ 1.0	24.5 $\pm$ 1.0	35.0 $\pm$ 1.0
Tighten the torque Plug (Aluminum) (N*m)	1.0 $\pm$ 0.3	4.2 $\pm$ 0.5	6.5 $\pm$ 0.5	10.8 $\pm$ 0.5
Tighten the torque Socket (Aluminum) (N*m)	1.0 $\pm$ 0.3	5.1 $\pm$ 0.5	9.4 $\pm$ 0.5	16.0 $\pm$ 0.5
Installation Drawing Reference	Please contact us for details			

The SCB and SDB ranges are not inter-conncetable

Displacement Blind-Mating fluid connector

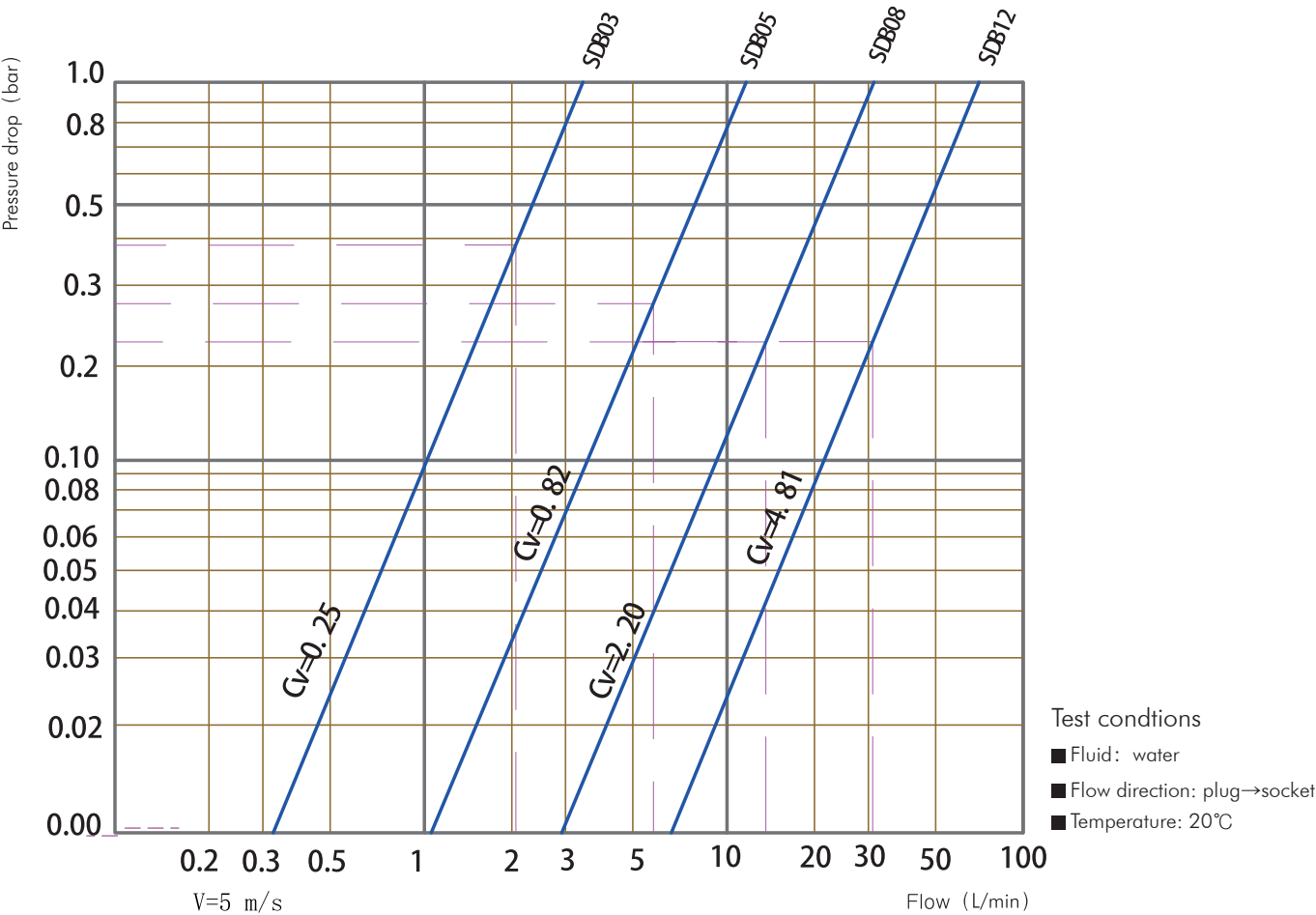


Technical Parameter



Regular Type				
Product model	SDB03	SDB05	SDB08	SDB12
Nominal Working Pressure (bar)	20	20	20	20
Cv (USgas/min)	0.25	0.82	2.2	4.81
Nominal Working Flow Rate (L/Min)	2.12	5.89	15.08	33.93
Leakage of single plugging (ml)	0.002	0.005	0.012	0.02
Connection force without pressure (N)	40	70	95	160

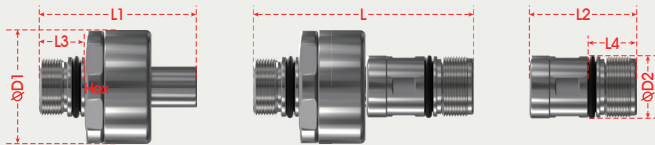
SDB Pressure Drop/Flow Rate Chart



→ SDB03

Plug and socket connection diagram

$L=L1+L2-X$
 $X=12.5\pm1.0$



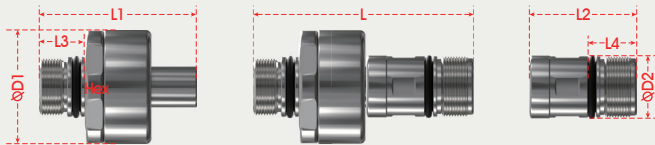
	Picture	End Fitting Type	L1	L2	L3	L4	D1	D2	Hex	Product model
Plug		M11 x 1.0	37.5	/	11.5	/	21	/	19	SDB 03P M11M
Socket		M11 x 1.0	/	29	/	12.5	/	16	14	SDB 03S M11M

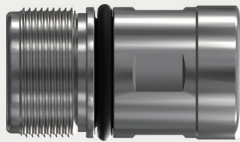
If you need to inquire about other end fitting, please feel free to contact our technical experts.
Our experienced quick connector experts provide you with the most thoughtful service.

→ SDB05

Plug and socket connection diagram

$L=L1+L2-X$
 $X=18.5\pm1.0$



	Picture	End Fitting Type	L1	L2	L3	L4	D1	D2	Hex	Product model
Plug		M16 x 0.75	51	/	13	/	26	/	24	SDB 05P M16M
Socket		M16 x 0.75	/	38	/	13	/	21	19	SDB 05S M16M

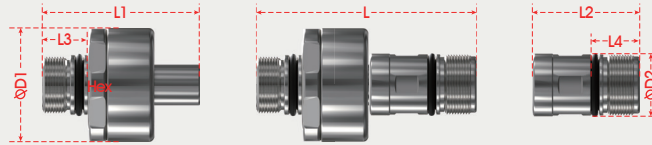
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→ SDB08

Plug and socket connection diagram

$$L = L1 + L2 - X$$

$$X = 19.2 \pm 1.0$$



	Picture	End Fitting Type	L1	L2	L3	L4	D1	D2	Hex	Product model
Plug		M21 x 1.0	60	/	17	/	33	/	30	SDB 08P M21M
Socket		M21 x 1.0	/	40.5	/	18	/	24	22	SDB 08S M21M

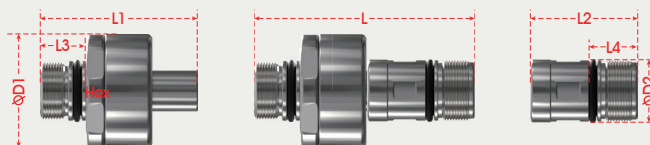
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→ SDB12

Plug and socket connection diagram

$$L = L1 + L2 - X$$

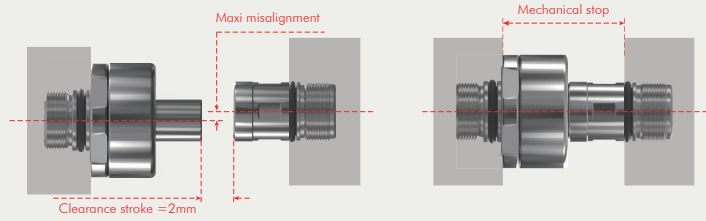
$$X = 25.0 \pm 1.0$$



	Picture	End Fitting Type	L1	L2	L3	L4	D1	D2	Hex	Product model
Plug		M29 x 1.5	73.5	/	19	/	38	/	36	SDB 12P M29M
Socket		M29 x 1.5	/	57.5	/	20	/	33	30	SDB 12S M29M

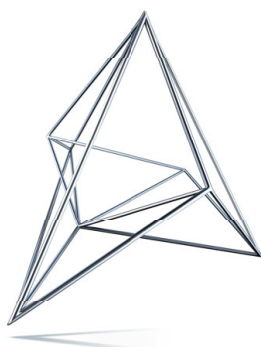
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SDB Range installation



Product model	SDB03	SDB05	SDB08	SDB12
Maxi misalignment (mm)	1	1	1	1
Mechanical stop (mm)	30 ± 1.0	44.5 ± 1.0	46.3 ± 1.0	67 ± 1.0
Tighten the torque Plug (Aluminum) (N*m)	1.1 ± 0.3	4.2 ± 0.5	6.5 ± 0.5	10.8 ± 0.5
Tighten the torque Socket (Aluminum) (N*m)	1.1 ± 0.3	4.2 ± 0.5	6.5 ± 0.5	10.8 ± 0.5
Installation Drawing Reference	Please contact us for details			

The SCB and SDB ranges are not inter-conncetable



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