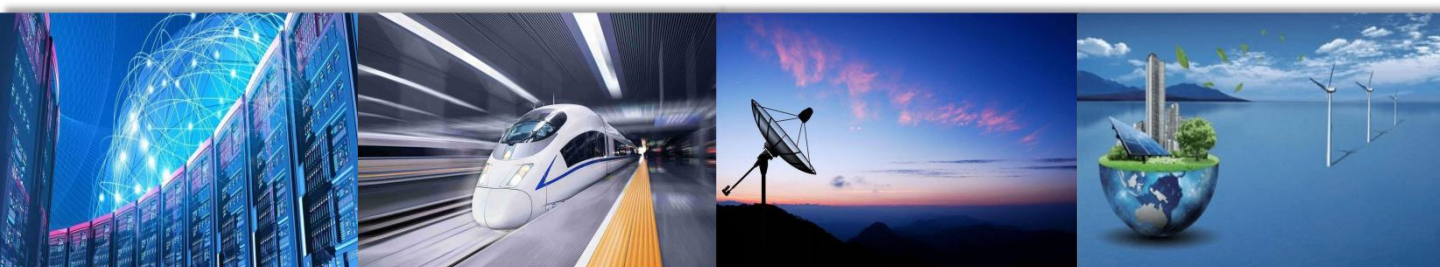


Liquid Cooling Quick Couplings



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Company Profile

Shenzhen Guchen Electronic Co., Ltd. is specialized in providing fluid connection products and solutions.

We have built a diversified product matrix covering all kinds of quick couplings, which are widely used in cutting-edge fields such as electronic devices, data centers, energy storage systems, life sciences, transportation and medical devices.

Guchen Electronics is always committed to providing customers with more safer and more energy-efficient fluid connection solutions.

Focus on Fluid Technology

As a technology-driven enterprise, Guchen Electronics owns more than 50 patents of liquid cooling couplings, and the R&D team continuously explores the needs of the industry and optimizes the performance of the products.

Relying on advanced automated production lines and 100,000-class clean room, combined with high-precision testing equipment and strict ISO 9001 quality management system, every connector passes the double testing of functionality and sealing performance, which effectively improves the safety and reliability of the products.

Meet your liquid cooling system requirements

Design

- Non-drip design
- Optimized internal spool structure
- Novel seal design
- Distinctive structural simulation
- Self-lubricating technology

Material

- Lightweight, high-strength materials
- Corrosion-resistant materials
- Different body material and seal material are available

Test

- Strict test to every couplings
- More than 5000 times connect & disconnect reliability test
- More than 20 testing projects

Applications

Electronics

- Liquid Cooling Servers
- Optical Module
- Radar
- Semiconductor

Energy

- Fast charger
- Energy Storage

Life Sciences

- Medical
- Biopharmaceuticals
- Analytical Instrument

Transportation

- Unpiloted Vehicle
- Drone
- Train & Subway
- Ship

General Industries

- Laser Equipment
- Molds
- Marine

Seal

Seal Material	Temperature Range (°C)	Applicable Fluids
EPDM	-40 ~ +120	Deionized Water, Purified Water, Glycol Water, Propanediol Water, Fluorinated Liquid
FKM	-15 ~ +200	Deionized Water, Purified Water, Glycol Water, Propanediol Water, Oils
FVMQ	-55 ~ +155	Deionized Water, Purified Water, Glycol Water, Propanediol Water, Oils
NBR	-40 ~ +80	Deionized Water, Purified Water, Glycol Water, Propanediol Water, Oils
HNBR	-40 ~ +150	Deionized Water, Purified Water, Glycol Water, Propanediol Water, Freon, Oils

EPDM: Excellent aging resistance, good corrosion resistance, poor oil resistance.

FKM: Highly chemically stable, oil resistant and high temperature resistant.

FVMQ: Resistance to oil, solvents and chemicals; excellent low-temperature performance.

NBR: Excellent oil resistance, high abrasion resistance, good heat resistance, poor low temperature resistance, slightly lower elasticity.

HNBR: Excellent corrosion resistance; resistance to tearing and compression; resistant to ozone, sunlight and oil.

Screw Thread

Thread Type	Thread Introduction
BSPP	ISO 228-1 standard, male straight threads can only be connected to inch female straight threads with O-rings or gaskets for face sealing. Female straight threads can be connected with inch male straight threads and male taper threads. Marking Rules, e.g. 3/8 BSP straight thread = G3/8
BSPT	ISO 7-1 standard, male taper threads can be connected to either a straight or a female imperial taper thread, and sealing is achieved by means of a coating or sealing tape to the thread. Marking Rules, e.g. 3/8 BSP taper thread = R3/8
Metric Thread	ISO 68-1 and ISO 965-1 standards, only with corresponding metric straight threads. Face sealing is achieved by means of O-rings or gaskets. Marking Rules, e.g. diameter 16 mm, pitch 1.5 mm = M16 x 1.5
UNF	ISO 725 standard, can only be connected to the corresponding US UNF thread, sealing is achieved by means of an O-ring. Note how the Port opening is machined. Marking Rules, e.g. Thread 9/16, 18 teeth per inch = 9/16-18 UNF

Conversion Chart

Flow

1 L/min = 0.06 m³/h=0.04 ft³/min=0.26 gallon/min

L/min	m ³ /h	ft ³ /min	gallon/min
1	0.06	0.04	0.26
6	0.36	0.21	1.59
12	0.72	0.42	3.17
18	1.08	0.64	4.76
30	1.8	1.06	7.93
60	3.6	2.12	15.85
120	7.2	4.24	31.70

Pressure

1 bar = 100,000 pa =100 kpa =0.1 Mpa=14.5 psi=750 mmHg=1.02 kgf/cm²

bar	pa	kpa	Mpa	psi	mmHg	kgf/cm ²
0.1	1x10 ⁴	10	0.01	1.45	75	0.1
0.5	5x10 ⁴	50	0.05	7	375	0.51
1	1x10 ⁵	1x10 ²	0.1	14.5	750	1.02
4	4x10 ⁵	4x10 ²	0.4	58	3x10 ³	4.08
8	8x10 ⁵	8x10 ²	0.8	116	6x10 ³	8.16
10	1x10 ⁶	1x10 ³	1	145	7,501	10.20
12	1.2x10 ⁶	1.2x10 ³	1.2	174	9,001	12.24
14	1.4x10 ⁶	1.4x10 ³	1.4	203	10,501	14.28
16	1.6x10 ⁶	1.6x10 ³	1.6	232	12,001	16.32
18	1.8x10 ⁶	1.8x10 ³	1.8	261	13,501	18.35
20	2x10 ⁶	2x10 ³	2	290	15,001	20.39

Technical features of GUCHEN Liquid Cooling Quick Couplings

◆ High Reliability

- **Non-Drip** No liquid dripping when connecting or disconnecting, very small amount of hanging liquid.
- **Low Pressure Drop** Higher flow rate for the same size.
- **Safe Connect & Disconnect** More than 5000 times safe connect & disconnect
- **Operate with Pressure** 5Bar pressurized connect & disconnect
- **Good Anticorrosion** Appropriate body and seal materials to resist fluid and electrochemical corrosion.
- **Impurity Resistance** Allow a certain amount of particle impurities to pass through.

◆ Easy to operate and install

- **Large Tolerance** Large tolerance sizes for blind-mate couplings to reduce mechanism costs.
- **Easy to Connect & Disconnect** Reduced plugging and unplugging force.
- **Small Size** Suitable for narrow space.
- **Light Weight** Reduce the weight of the machine by choosing the appropriate body material.

Product Coding Rules Sheet

Product Coding Rules Sheet		MDC	04	S	1	S	F	G	01	2	N																																					
MDC	Product Series MDC MTC BRC UQD									Color Rings R-Red B-Blue N-None		N																																				
	Effective Diameter DN04mm DN06mm DN08mm									Seal Material 1-NBR 2-EPDM 3-FKM 4-FVMQ 5-HNBR		2																																				
S	Plug\Socket P-Plug S-Socket									Connection Size <table><tr><td>G/R Thread</td><td>UNF Thread</td><td>Self-contained hose</td></tr><tr><td>01-1/8"</td><td>02-5/16"</td><td>04-ID 1/4"</td></tr><tr><td>02-1/4"</td><td>03-3/8"</td><td>06-ID 3/8"</td></tr><tr><td>04-3/8"</td><td>04-7/16"</td><td>08-ID 1/2"</td></tr><tr><td>05-1/2"</td><td>05-1/2"</td><td>10-ID 5/8"</td></tr><tr><td>07-5/8"</td><td>06-9/16"</td><td>12-ID 3/4"</td></tr><tr><td>08-3/4"</td><td>07-5/8"</td><td>16-ID 1"</td></tr><tr><td>09-1"</td><td>08-3/4"</td><td>20-ID 1-1/4"</td></tr><tr><td colspan="3"> </td></tr><tr><td>M Thread</td><td>Hose</td><td></td></tr><tr><td>05-M5</td><td>04-ID 4mm</td><td></td></tr><tr><td>16-M16</td><td>06-ID 6mm</td><td></td></tr></table>		G/R Thread	UNF Thread	Self-contained hose	01-1/8"	02-5/16"	04-ID 1/4"	02-1/4"	03-3/8"	06-ID 3/8"	04-3/8"	04-7/16"	08-ID 1/2"	05-1/2"	05-1/2"	10-ID 5/8"	07-5/8"	06-9/16"	12-ID 3/4"	08-3/4"	07-5/8"	16-ID 1"	09-1"	08-3/4"	20-ID 1-1/4"				M Thread	Hose		05-M5	04-ID 4mm		16-M16	06-ID 6mm		01
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16-M16	06-ID 6mm																																															
1	Stop Valve 1-With stop valve, self-closing 0-Without stop valve, straight through																																															
S	Body Material S-Stainless Steel A-Aluminum																																															
F	Tail Type M- Male Thread F - Female Thread W- Unthread E - Elbows									Connection Type M-Metric thread G-G thread U-UNF thread H-Push-lock with clamp P-Self-tying push-lock F-Flange Q-Quick screw C-Crimp hose		G																																				

MDC Series Coupling

Application

Data Center, HPC, Semiconductor Equipment, Medical Equipment

Technical Features

- Non-drip
- One-handed operation, easy to connect & disconnect
- Bi-directional stop valve
- Low pressure drop
- Anti-vibration, meet IEC 61373 standard
- Multiple tail type and seal material options

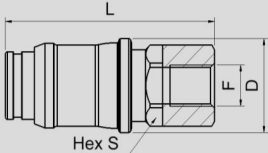
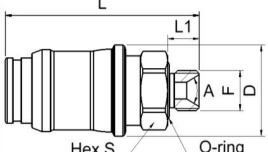
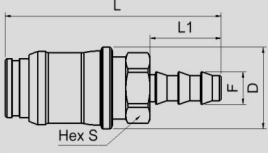
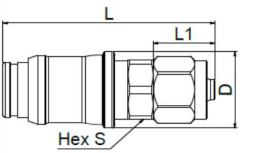


Description

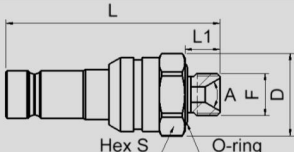
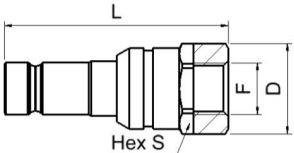
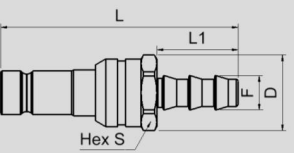
Nominal diameter	DN04~25
Body material	316L Stainless Steel, Aluminium Alloy
Seal material	EPDM, FKM、FVMQ and other seal materials can be chosen
Working pressure	20bar
Burst pressure	80bar
Working temperature	-40°C ~ +120°C
Fluid	Deionized water, purified water, glycol water, propanediol water, fluorinated liquid
Others	Please contact us if need red/blue colored marks



MDC04 Socket, DN04, 316L Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G1/8" Female Thread	N/A	Ø22	N/A	52	17	MDC04S-1SFG012N
	G1/8" Male Thread	60°	Ø22	8	50	17	MDC04S-1SMG012N
	1/4" Hose Barb Push- Lok	N/A	Ø22	20	62	17	MDC04S-1SWP042N
	Spigot Compression Fitting 8x5.5mm Hose	N/A	Ø22	17	59	17	MDC04S-1SWQ052N

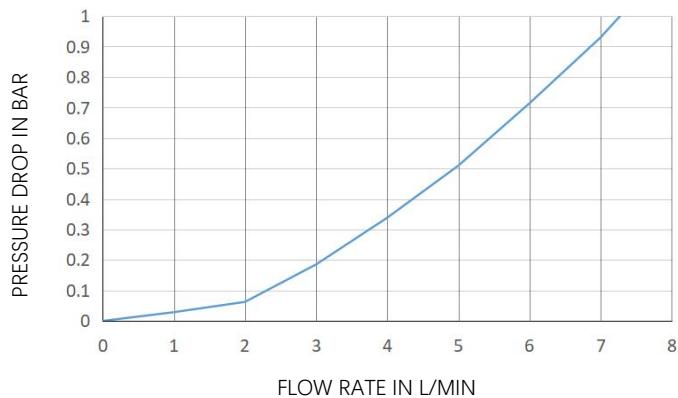
MDC04 Plug, DN04, 316L Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G1/8" Male Thread	60.5°	Ø19	8	49.3	17	MDC04P-1SMG012N
	G1/8" Female Thread	N/A	Ø19	N/A	47.4	17	MDC04P-1SFG012N
	1/4" Hose Barb Push-Lok	N/A	Ø19	20.4	59.7	17	MDC04P-1SWP042N

Flow chart

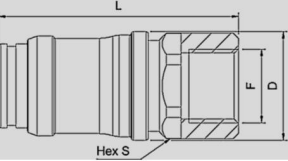
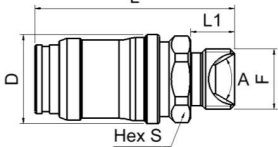
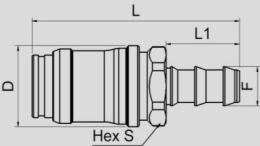
Condition:

- From plug to socket
- Liquid: water

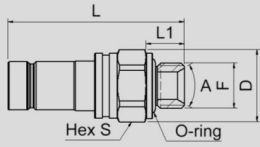
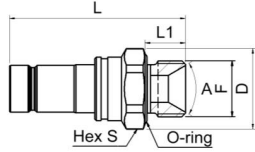
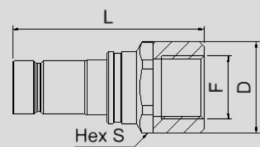
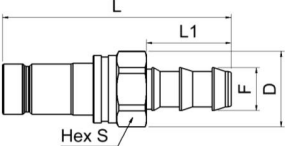




MDC06 Socket, DN06, 316L Stainless Steel, EPDM Seal

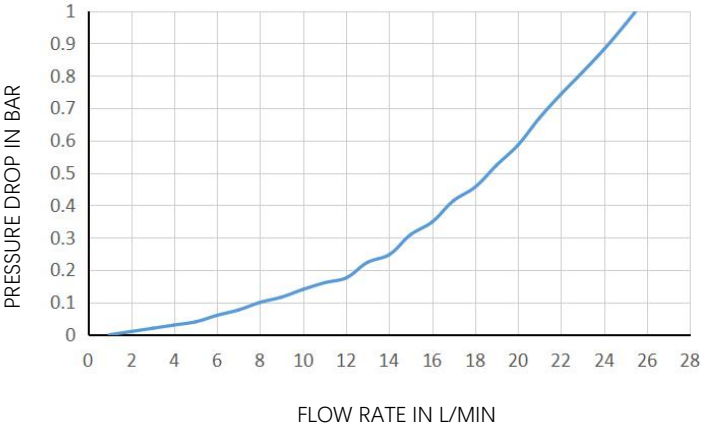
Dimensions	Connection F	A	D	L1	L	S	Part Number
	G3/8" Female Thread	N/A	Ø24.6	N/A	55	22	MDC06S-1SFG042N
	G3/8" Male Thread	60.5°	Ø24.6	12	54.9	22	MDC06S-1SMG042N
	3/8" Hose Barb Push-Lok	N/A	Ø24.6	23.5	66.4	22	MDC06S-1SWP062N

MDC06 Plug, DN06, 316L Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G1/4" Male Thread	60.5°	Ø21	11.2	51.3	19	MDC06P-1SMG022N
	G3/8" Male Thread	60.5°	Ø24	12	52.1	22	MDC06P-1SMG042N
	G3/8" Female Thread	N/A	Ø24	N/A	50.7	22	MDC06P-1SFG042N
	3/8" Hose Barb Push-Lok	N/A	Ø21	23.5	63.6	19	MDC06P-1SWP062N

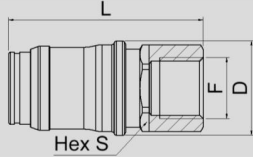
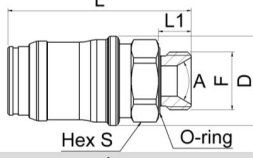
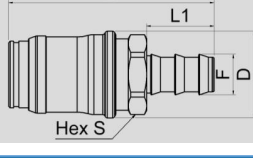
Flow chart

- Condition:
- From plug to socket
 - Liquid: water

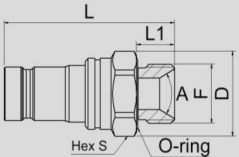
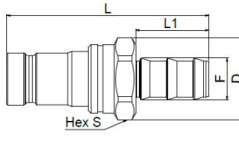




MDC09 Socket, DN09, 316L Stainless Steel, EPDM Seal

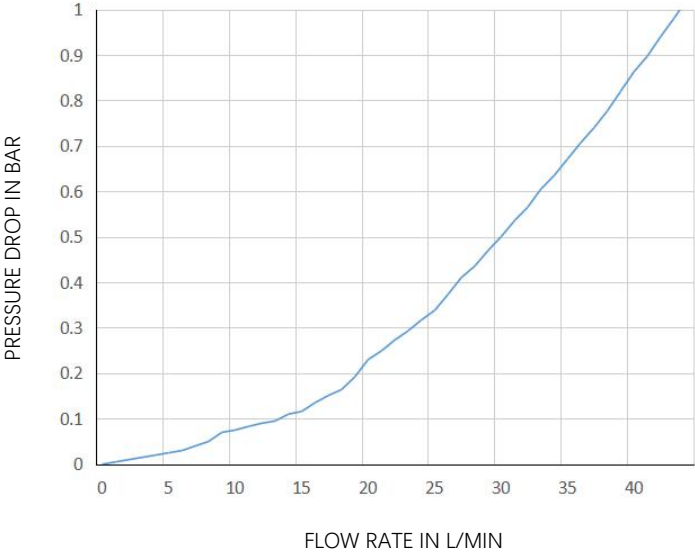
Dimensions	Connection F	A	D	L1	L	S	Part Number
	G1/2" Female Thread	N/A	Ø32.5	N/A	67.1	27	MDC09S-1SFG052N
	G1/2" Male Thread	60.5°	Ø32.5	12	67.1	27	MDC09S-1SMG052N
	1/2" Hose Barb Push-Lok	N/A	Ø32.5	25.5	77.6	27	MDC09S-1SWP082N

MDC09 Plug, DN09, 316L Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G1/2" Male Thread	60.5°	Ø30	12	61	27	MDC09P-1SMG052N
	1/2" Hose Barb Push-Lok	N/A	Ø30	27	75	27	MDC09P-1SWP082N

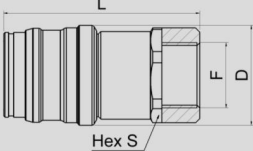
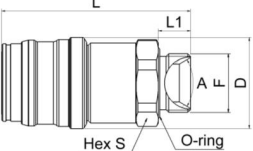
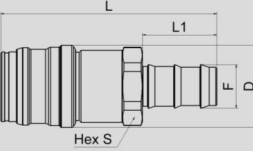
Flow chart

- Condition:
- From plug to socket
 - Liquid: water

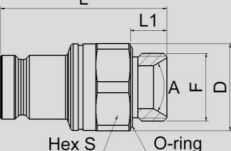




MDC14 Socket, DN14, 316L Stainless Steel, EPDM Seal

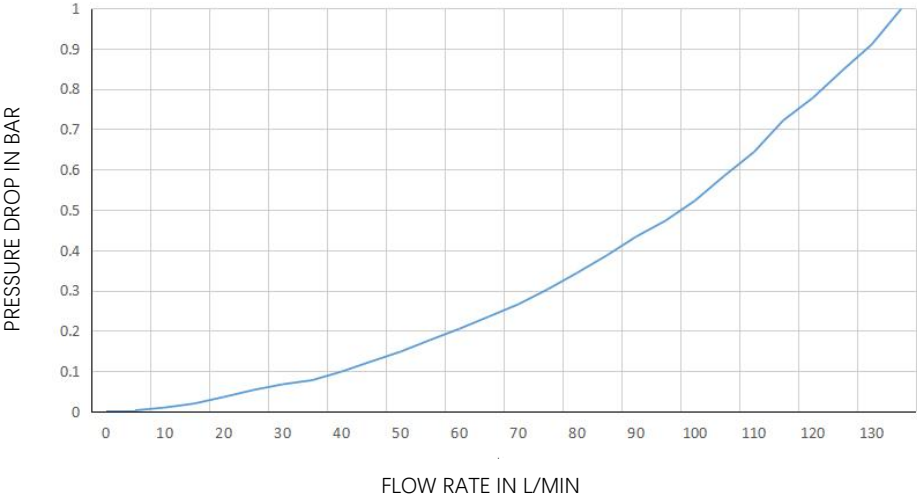
Dimensions	Connection F	A	D	L1	L	S	Part Number
	G3/4" Female Thread	N/A	Φ41	N/A	80.7	36	MDC14S-1SFG082N
	G3/4" Male Thread	60.5°	Φ41	14.5	85	36	MDC14S-1SMG082N
	3/4" Hose Barb Push-Lok	N/A	Φ41	37	107.5	36	MDC14S-1SWP122N

MDC14 Plug, DN14, 316L Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G3/4" Male Thread	60.5°	Φ37	14.5	66	34	MDC14P-1SMG082N

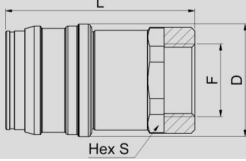
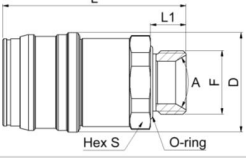
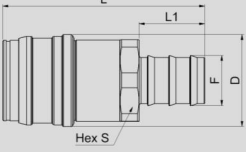
Flow chart

- Condition:
- From plug to socket
 - Liquid: water

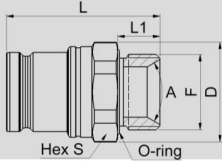
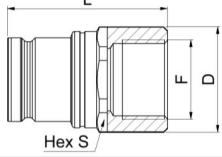
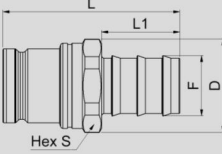




MDC19 Socket, DN19, 316L Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G1" Female Thread	N/A	Φ52	N/A	88	46	MDC19S-1SFG092N
	G1" Male Thread	60.5°	Φ52	18.6	95.5	46	MDC19S-1SMG092N
	1" Hose Barb Push-Lok	N/A	Φ52	37	113.9	46	MDC19S-1SWP162N

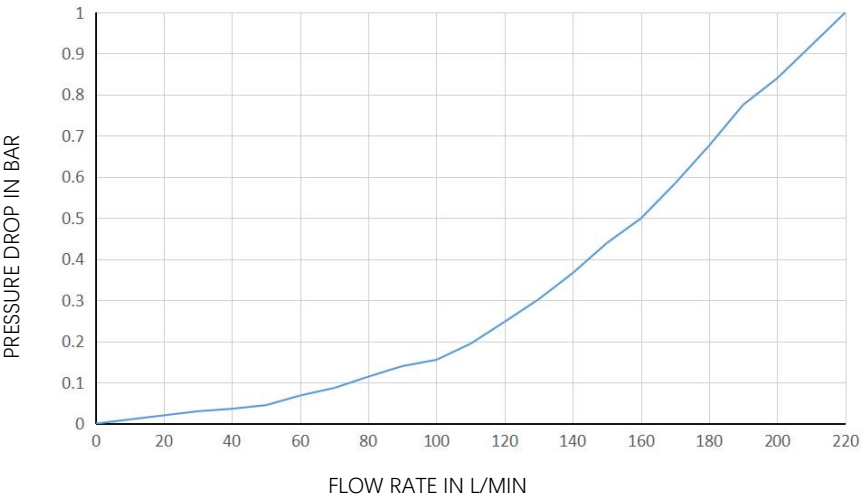
MDC19 Plug, DN19, 316L Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G1" Male Thread	60.5°	Φ44	18.6	67.5	41	MDC19P-1SMG092N
	G1" Female Thread	N/A	Φ44	N/A	67.5	41	MDC19P-1SFG092N
	1" Hose Barb Push-Lok	N/A	Φ44	37	83.7	41	MDC19P-1SWP162N

Flow chart

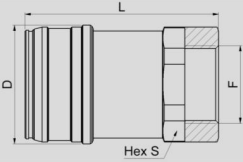
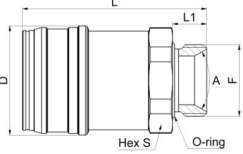
Condition:

- From plug to socket
- Liquid: water

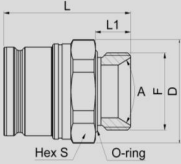




MDC25 Socket, DN25, 316L Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G1 1/4" Female Thread	N/A	Φ64	N/A	104.2	58	MDC25S-1SFG122N
	G1 1/4" Male Thread	60.5°	Φ64	20	108.2	58	MDC25S-1SMG122N

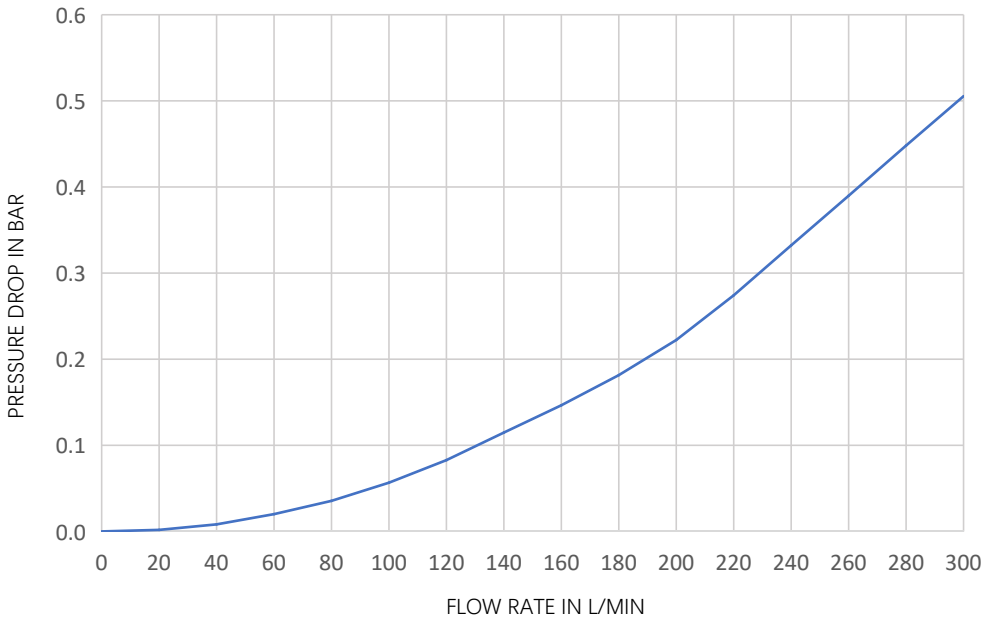
MDC25 Plug, DN25, 316L Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G1 1/4" Male Thread	60.5°	Φ56	20	72	52	MDC25P-1SMG122N

Flow chart

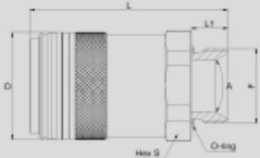
Condition:

- From plug to socket
- Liquid: water

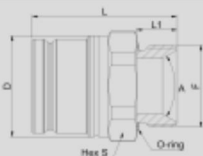




MDC25 Socket, DN25, Aluminium Alloy, EPDM Seal

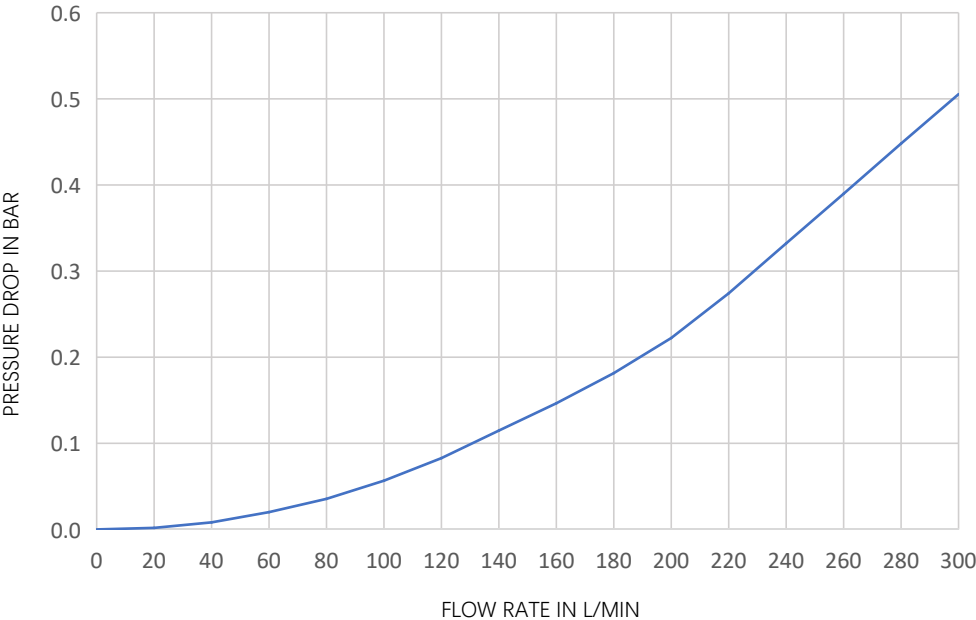
Dimensions	Connection F	A	D	L1	L	S	Part Number
	G1 1/4 Male Thread	60.5°	Ø62	20	108	58	MDC25S-1AMG122N

MDC25 Plug, DN25, Aluminium Alloy, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G1 1/4 Male Thread	60.5°	Ø56	20	72.1	52	MDC25P-1AMG122N

Flow chart

- Condition:
- From plug to socket
 - Liquid: water



MTC Series Coupling

Application

Transportation, Ship, Data Center

Technical Features

- Non-drip
- Two-handed operation for effective connection safety in specific industries such as railway
- Bi-directional stop valve
- Anti-vibration, meets IEC 61373 standard
- Aluminium alloy body with self-lubricating function
- Large flow rate, low power consumption
- Light weight

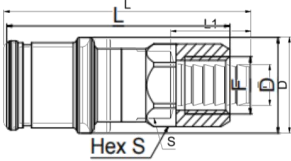
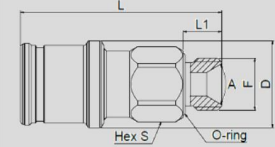
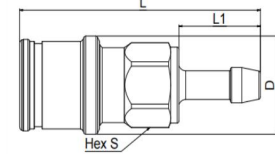


Description

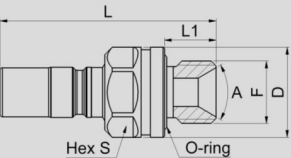
Nominal diameter	DN05~25
Body material	Aluminium Alloy
Seal material	EPDM, HNBR、 FVMQ and other seal materials can be chosen
Working pressure	20bar
Burst pressure	80bar
Working temperature	-40℃ ~ +120℃
Fluid	Deionized water, purified water, glycol water, propanediol water, fluorinated liquid, oils
Others	Please contact us if need red/blue colored marks



MTC05 Socket, DN05, Aluminium Alloy, EPDM Seal

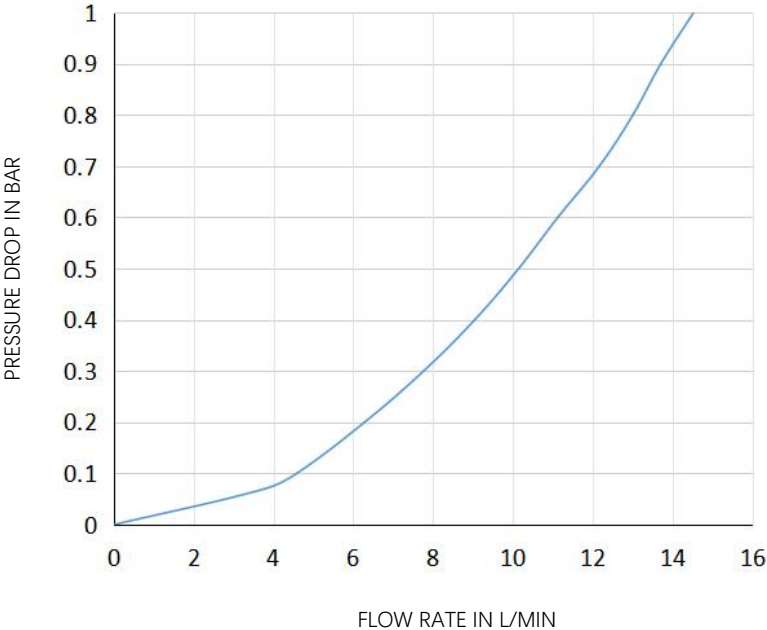
Dimensions	Connection F	A	D	L1	L	S	Part Number
	G1/4 Female Thread	N/A	Φ22	N/A	54.5	17	MTC05S-1AFG022N
	G1/4 Male Thread	60.5°	Φ22	9.9	51.7	17	MTC05S-1AMG022N
	1/4" Hose Barb Push- Lok	N/A	Φ22	21.8	64.4	17	MTC05S-1AWH062N

MTC05 Plug, DN05, Aluminium Alloy, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G1/4 Male Thread	60.5°	Φ19	11	46.1	17	MTC05P-1AMG022N

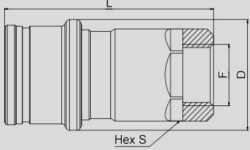
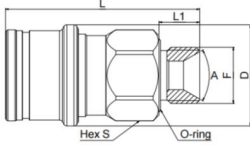
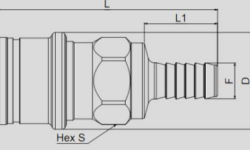
Flow chart

- Condition:
- From plug to socket
 - Liquid: water

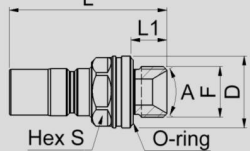




MTC08 Socket, DN08, Aluminium Alloy, EPDM Seal

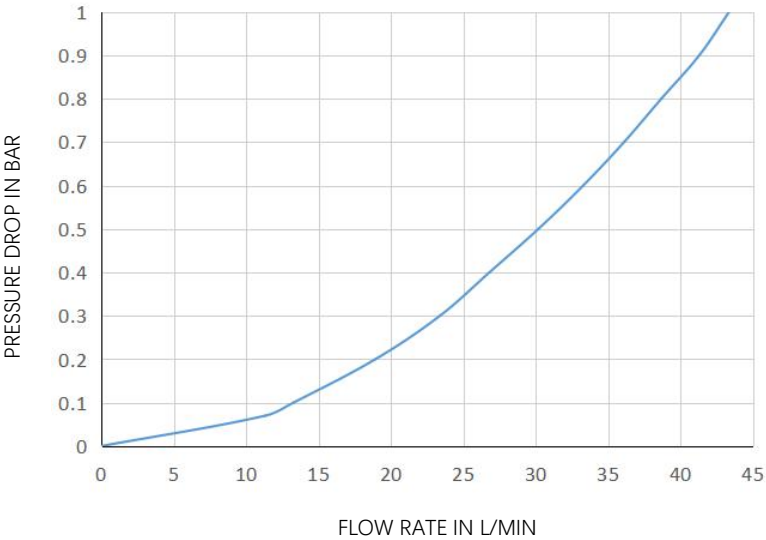
Dimensions	Connection F	A	D	L1	L	S	Part Number
	G3/8" Male Thread	N/A	Φ30	N/A	58.3	22	MTC08S-1AFG042N
	G3/8" Female Thread	60.5°	Φ30	12	57.3	24	MTC08S-1AMG042N
	3/8" Hose Barb Push-Lok	N/A	Φ30	23	68.5	22.7	MTC08S-1AWH102N

MTC08 Plug, DN08, Aluminium Alloy, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G3/8" Male Thread	60.5°	Φ23.5	12	52.5	20	MTC08P-1AMG042N

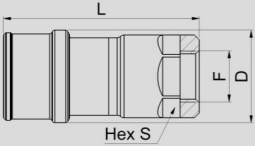
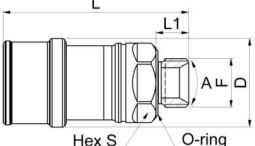
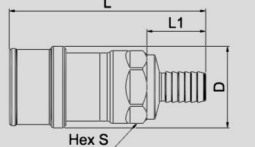
Flow chart

- Condition:
- From plug to socket
 - Liquid: water

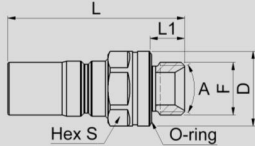




MTC10 Socket, DN10, Aluminium Alloy, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G1/2" Female Thread	N/A	Φ38	N/A	80	30	MTC10S-1AFG052N
	G1/2" Male Thread	60°	Φ38	14	79.3	30	MTC10S-1AMG052N
	1/2" Hose Barb Push lock	N/A	Φ38	27.9	93.2	30	MTC10S-1AWH132N

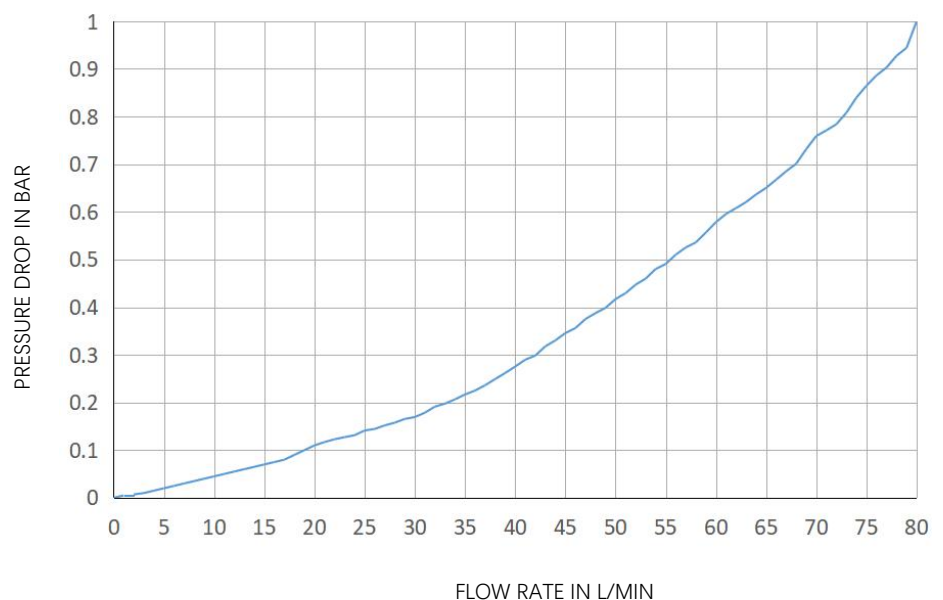
MTC10 Plug, DN10, Aluminium Alloy, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G1/2" Male Thread	60°	Φ30	14	71.5	27	MTC10P-1AMG052N

Flow chart

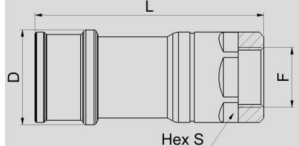
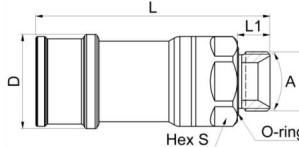
Condition:

- From plug to socket
- Liquid: water

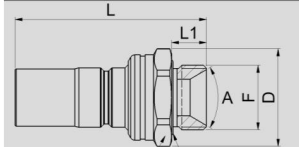




MTC12 Socket, DN12, Aluminium Alloy, EPDM Seal

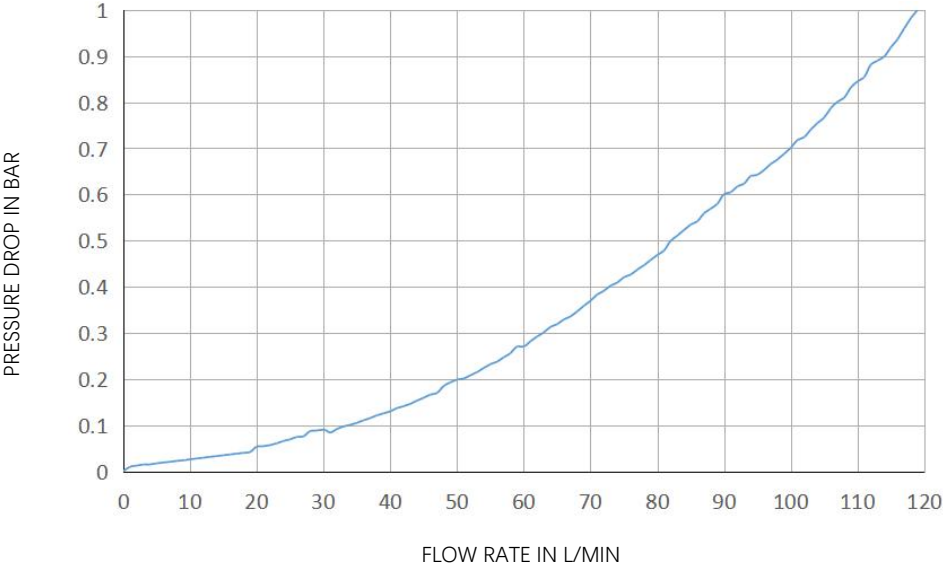
Dimensions	Connection F	A	D	L1	L	S	Part Number
	G3/4" Female Thread	N/A	Φ42	N/A	101.9	36	MTC12S-1AFG082N
	G3/4" Male Thread	60°	Φ42	14.5	103.9	36	MTC12S-1AMG082N

MTC12 Plug, DN12, Aluminium Alloy, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G3/4" Male Thread	60°	Φ40	14.5	79.5	36	MTC12P-1AMG082N

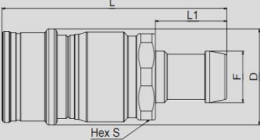
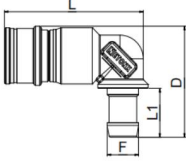
Flow chart

- Condition:
- From plug to socket
 - Liquid: water

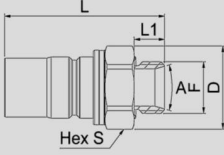




MTC15 Socket, DN15, Aluminium Alloy, EPDM Seal

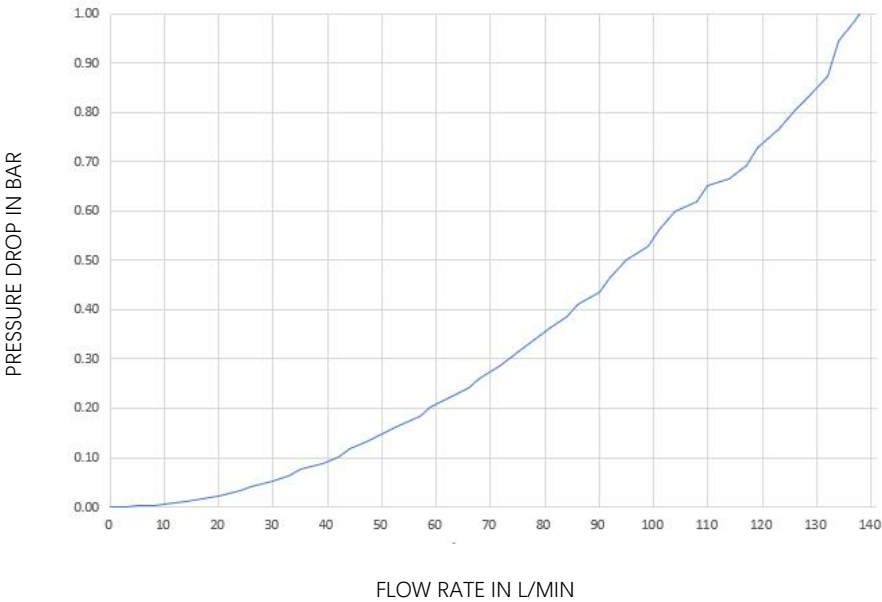
Dimensions	Connection F	A	D	L1	L	S	Part Number
	3/4" Hose Barb Push-Lok	N/A	Φ40	33	103.8	36	MTC15S-1AWH192N
	3/4" Elbow Barb Push-Lok	N/A	75	33	95.3	N/A	MTC15S-1AEH192N

MTC15 Plug, DN15, Aluminium Alloy, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G1/2" Male Thread	30°	Φ33.5	13	68.5	30	MTC15P-1AMG052N

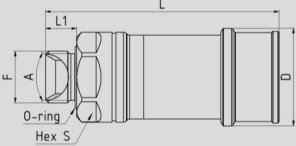
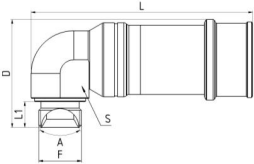
Flow chart

- Condition:
- From plug to socket
 - Liquid: water

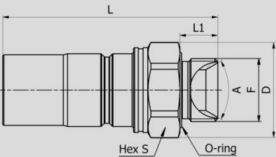




MTC17 Socket, DN17, Aluminium Alloy, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G3/4" Male Thread	60°	Φ50	16	120	41	MTC17S-1AMG082N
	G3/4" Male Thread	60°	67	16	137.6	36	MTC17S-1AEG082N

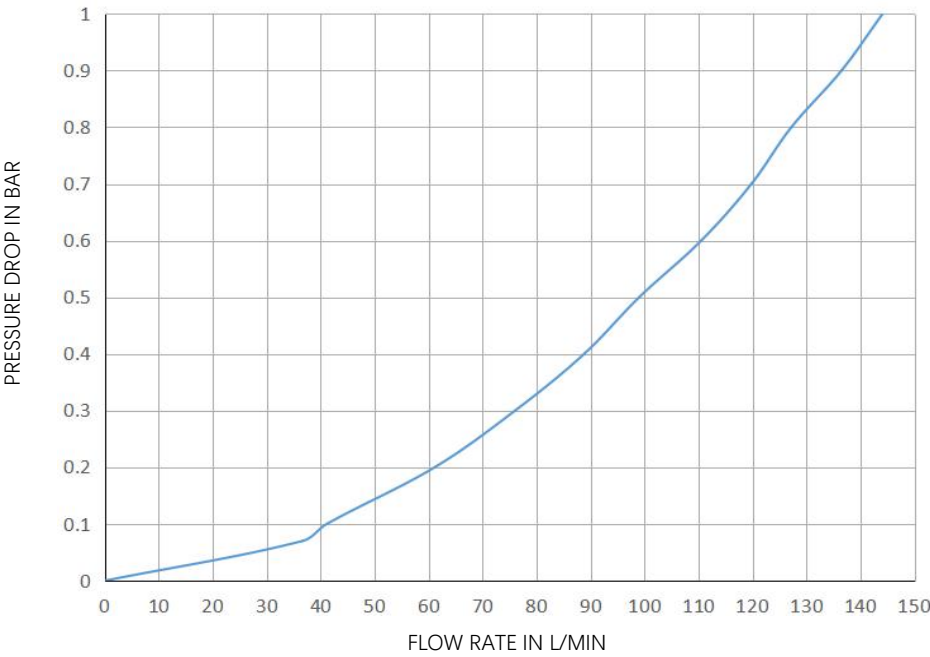
MTC17 Plug, DN17, Aluminium Alloy, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G3/4" Male Thread	60°	Φ40	16	90.5	36	MTC17P-1AMG082N

Flow chart

Condition:

- From plug to socket
- Liquid: water



UQD Series Coupling

Application

Data Center, HPC

Technical Features

- Meet OCP Standards
- Non-drip
- One-handed connection
- Interchangeable with OCP standard products

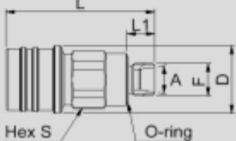
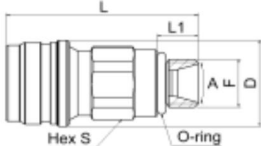
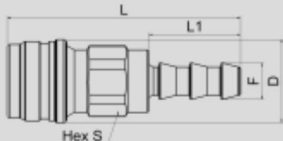


Technical data

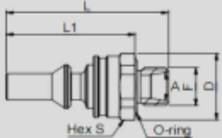
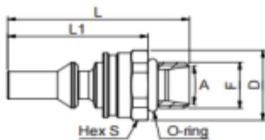
Nominal diameter	DN03、05、07、10
Body material	316L stainless steel
Seal material	EPDM, HNBR、FVMQ and other seal materials can be chosen
Working pressure	20bar
Burst pressure	80bar
Working temperature	-40℃ ~ +120℃
Fluid	Deionized water, purified water, glycol water, propanediol water, fluorinated liquid
Others	Please contact us if need red/blue colored marks



UQD02 Socket, DN03, 316L Stainless Steel, EPDM Seal

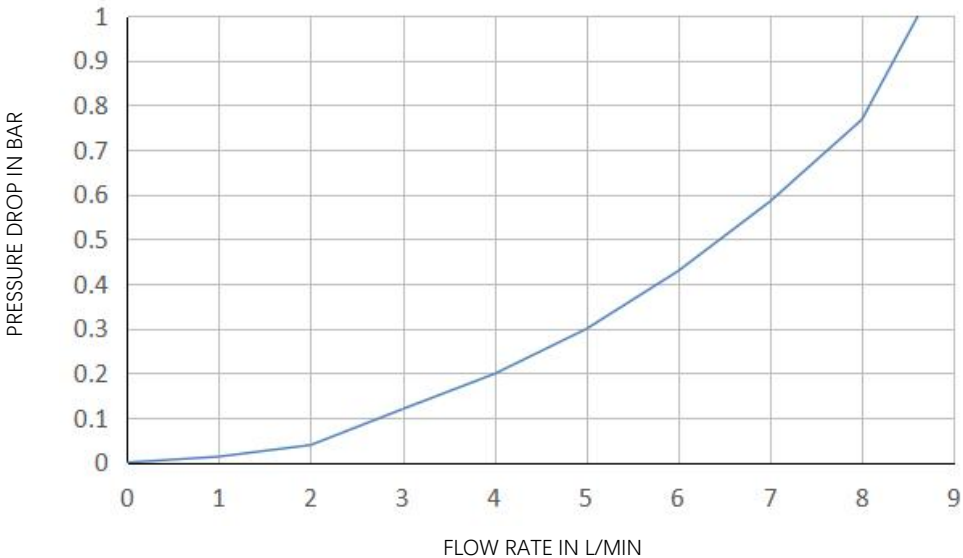
Dimensions	Connection F	A	D	L1	L	S	Part Number
	G1/8" Male Thread	20°	Φ20	8	42.3	16	UQD02S-1SMG012N
	7/16-20UNF Male Thread	32°	Φ20	9.1	42.4	16	UQD02S-1SMU042N
	1/4 Hose Barb Push-Lok	N/A	Φ20	21.5	54.8	16	UQD02S-1SWP042N

UQD02 Plug, DN03, 316L Stainless, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G1/8" Male Thread	20°	Φ17	31	39	16	UQD02P-1SMG012N
	7/16-20UNF Male Thread	16°	Φ17	31	40.1	16	UQD02P-1SMU042N

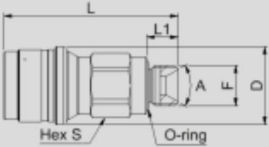
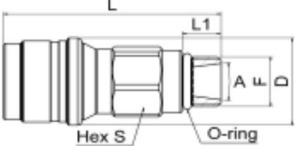
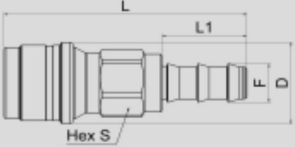
Flow chart

- Condition:
- From plug to socket
 - Liquid: water

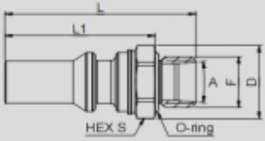
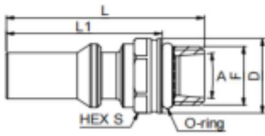




UQD04 Socket, DN05, 316L Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G1/4" Male Thread	60°	Φ25.2	10	55.6	19	UQD04S-1SMG022N
	9/16-18UNF Male Thread	17°	Φ25.2	10	56	19	UQD04S-1SMU062N
	3/8 Hose Barb Push-Lok	N/A	Φ25.2	24.5	70.1	19	UQD04S-1SWP062N

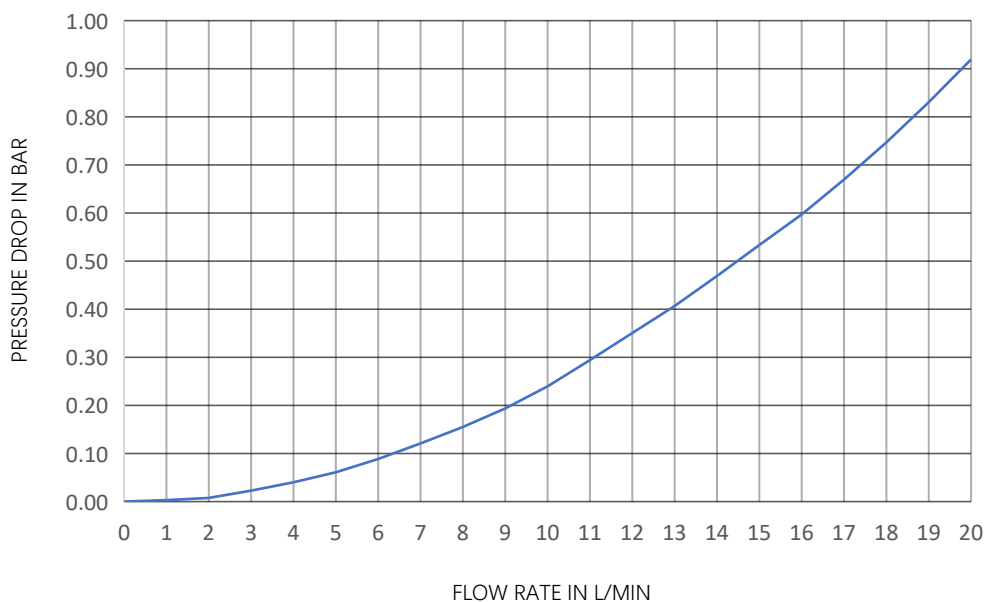
UQD04 Plug, DN05, 316L Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G1/4" Male Thread	10°	Φ19	35.4	45	17	UQD04P-1SMG022N
	9/16-18UNF Male Thread	10°	Φ18	35.4	45	16	UQD04P-1SMU062N

Flow chart

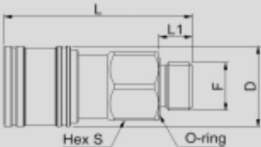
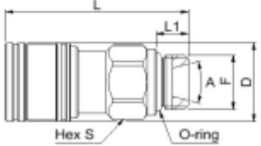
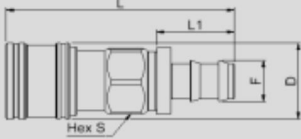
Condition:

- From plug to socket
- Liquid: water

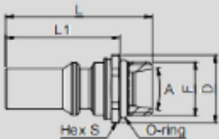
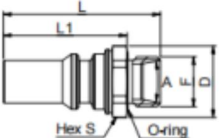




UQD06 Socket, DN07, 316L Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G3/8" Male Thread	N/A	Φ28	11	62.2	24	UQD06S-1SMG042N
	3/4-16UNF Male Thread	30°	Φ28	11	62.2	24	UQD06S-1SMU082N
	1/2 Hose Barb Push-Lok	N/A	Φ28	27	79.1	24	UQD06S-1SWP082N

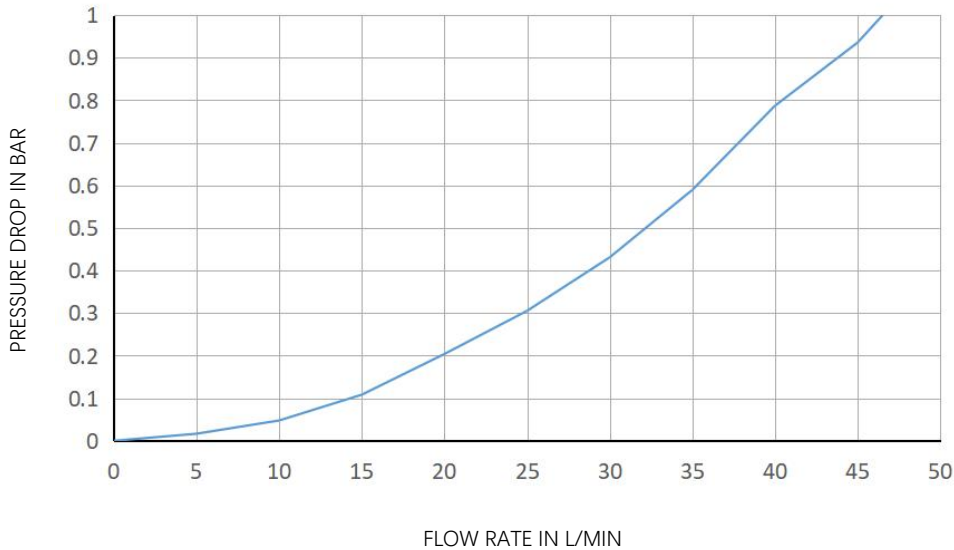
UQD06 Plug, DN07, 316L Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	3/4-16UNF Male Thread	20°	Φ24	38.9	50	22	UQD06P-1SMU082N
	G3/8" Male Thread	20°	Φ24	41	52.1	22	UQD06P-1SMG042N

Flow chart

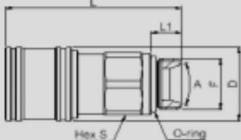

Condition:

- From plug to socket
- Liquid: water

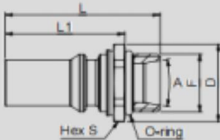
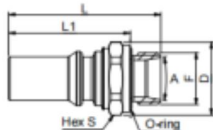




UQD08 Socket, DN10, 316L Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	7/8-14UNF Male Thread	40°	Φ32	12.7	72.8	27	UQD08S-1SMU102N
	5/8 Hose Barb Push-Lok	N/A	Φ32	27	87.1	27	UQD08S-1SWP102N

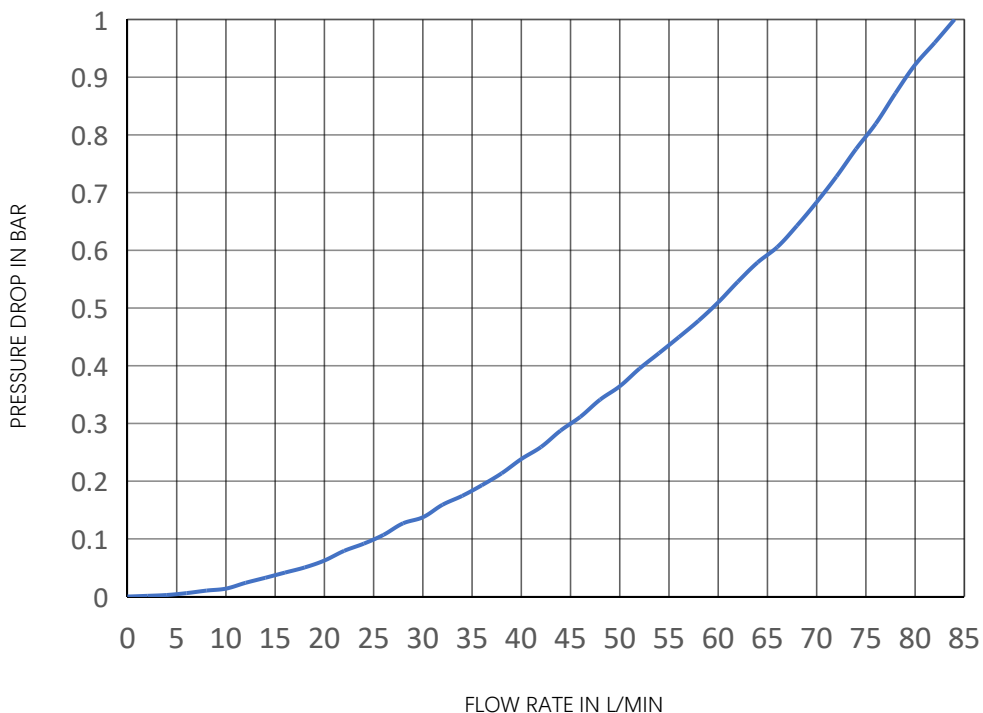
UQD08 Plug, DN10, 316L Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	7/8-14UNF Male Thread	20°	Φ29.5	42.9	55.6	27	UQD08P-1SMU102N
	G1/2" Male Thread	20°	Φ29.5	47.9	59.9	27	UQD08P-1SMG052N

Flow chart

Condition:

- From plug to socket
- Liquid: water



MQD Series Coupling

Application

Data Center, HPC

Technical Features

- Non-drip
- One-handed connection
- Compact size
- NVIDIA standard

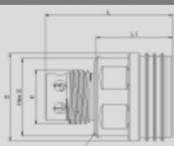


Description



Nominal diameter	DN03、04、05
Body material	Stainless Steel
Seal material	EPDM
Working pressure	6.9bar
Burst pressure	20.7bar
Working temperature	-40℃ ~ +120℃
Fluid	Deionized water, purified water, glycol water, propanediol water
Others	Please contact us if need red/blue colored marks



MQD02 Socket, DN02, Stainless Steel, EPDM Seal

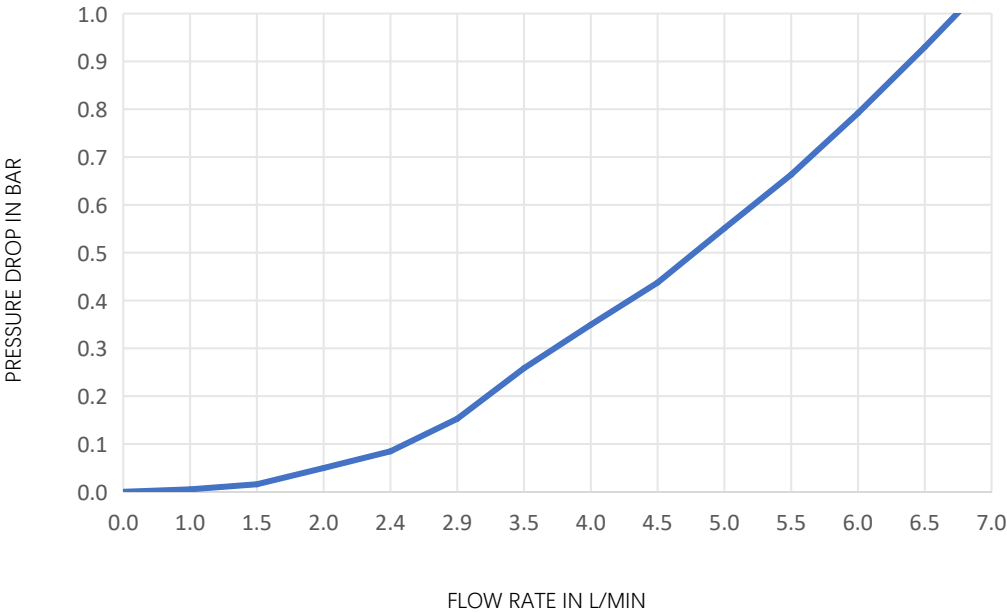
Dimensions	Connection F	A	D	L1	L	S	Part Number
	7/16-20UNF Male Thread	N/A	Ø18	15.4	25.7	15.9	MQD02S-1SMU042N

MQD02 Plug, DN02, Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	1/4" Hose Barb Push-Lok	N/A	Ø13	15.06	39.26	N/A	MQD02P-1SWP042N
	1/4" Hose Barb Push-Lok	N/A	24.2	15.25	31	N/A	MQD02P-1SEP042N

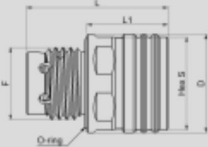
Flow chart

- Condition:**
- From plug to socket
 - Liquid: water

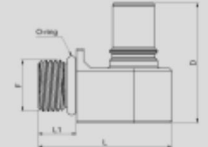

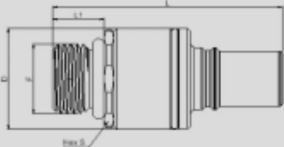
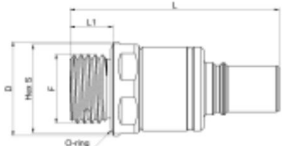




MQD03 Socket, DN03, Stainless Steel, EPDM Seal

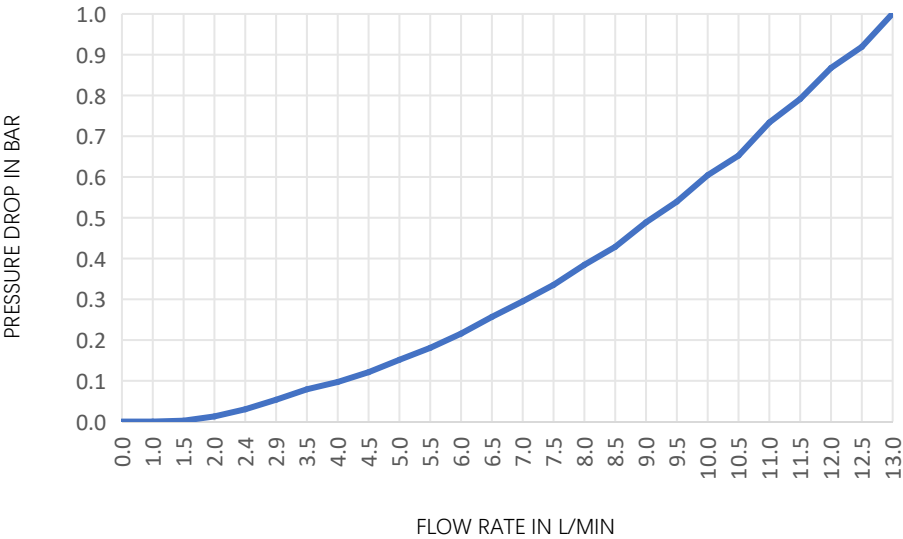
Dimensions	Connection F	A	D	L1	L	S	Part Number
	G1/4" Male Thread	N/A	Ø18	14.45	25.25	17	MQD03S-1SMG022N

MQD03 Plug, DN03, Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	7/16-20UNF Male Thread	N/A	26	8	28	N/A	MQD03P-1SEU042N
	8mm Hose Barb Push-Lok	N/A	26	15.25	32.5	N/A	MQD03P-1SEH082N
	7/16-20UNF Male Thread	N/A	Ø16.1	7.9	35.4	15	MQD03P-1SMU042N
	G1/4" Male Thread	N/A	Ø18	8.1	39	17	MQD03P-1SMG022N

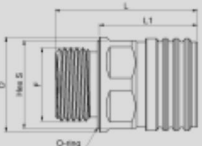
Flow chart

- Condition:**
- From plug to socket
 - Liquid: water



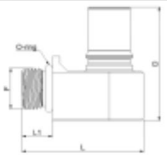


MQD04 Socket, DN04, Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G3/8" Male Thread	N/A	21.6	21.8	31.6	20	MQD04S-1SMG042N

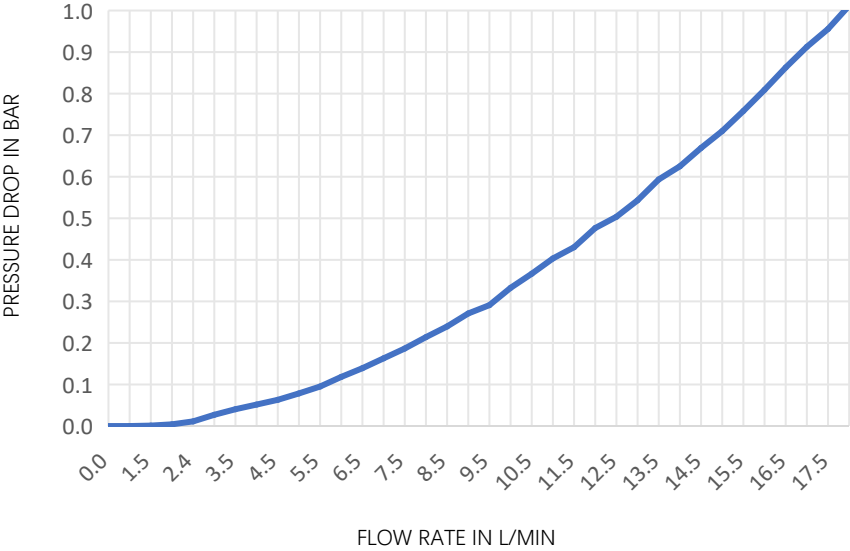
MQD04 Plug, DN04, Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	7/16-20UNF Male Thread	N/A	Φ18.1	8	38.5	17	MQD04P-1SMU042N

	7/16-20UNF Male Thread	N/A	30.75	8	32	N/A	MQD04P-1SEU042N
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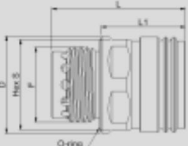
Flow chart

- Condition:**
- From plug to socket
 - Liquid: water

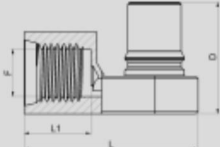




MQD04 Socket, DN04, Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G3/8" Male Thread	N/A	Φ21.6	18.3	29.1	20	MQD04S-MINI2N

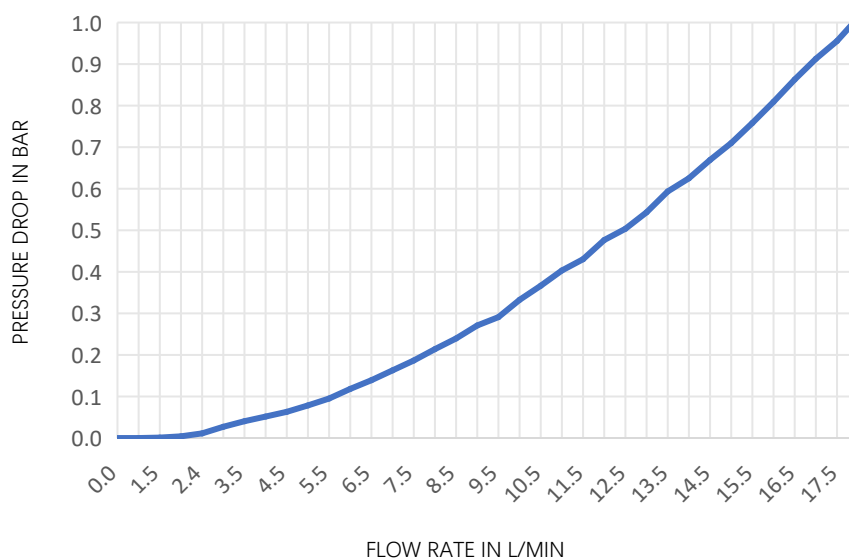
MQD04 Plug, DN04, Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	9/16-18UNF Female Thread	N/A	23.7	13.8	36.05	N/A	MQD04P-MINI2N

Flow chart

Condition:

- From plug to socket
- Liquid: water



MBT Series Coupling

Application

Fast charger, Bitcoin mining machine, Energy Storage

Technical Features

- Non-drip
- Bi-directional stop valve
- Aluminium alloy body with self-lubricating function
- Large flow rate, low power consumption
- Light weight

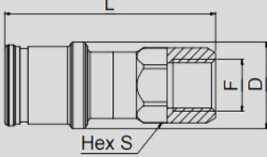
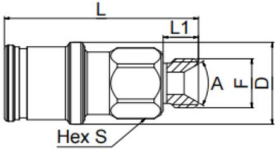
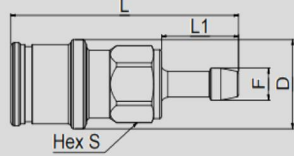


Description

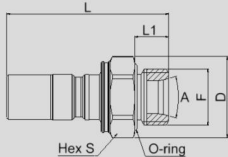
Nominal diameter	DN05~15
Body material	Aluminium Alloy
Seal material	EPDM, HNBR、FKM and other seal materials can be chosen
Working pressure	20bar
Burst pressure	80bar
Working temperature	-40℃ ~ +120℃
Fluid	Deionized water, purified water, glycol water, propanediol water, oils, fluorinated liquid
Others	Please contact us if need red/blue colored marks



MBT05 Socket, DN05, Aluminium Alloy, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G1/4 Female Thread	N/A	Φ22	N/A	54.5	17	MBT05S-1AFG022N
	G1/4 Male Thread	60.5°	Φ22	9.9	51.7	17	MBT05S-1AMG022N
	1/4" Hose Barb Push- Lok	N/A	Φ22	21.8	64.4	17	MBT05S-1AWH062N

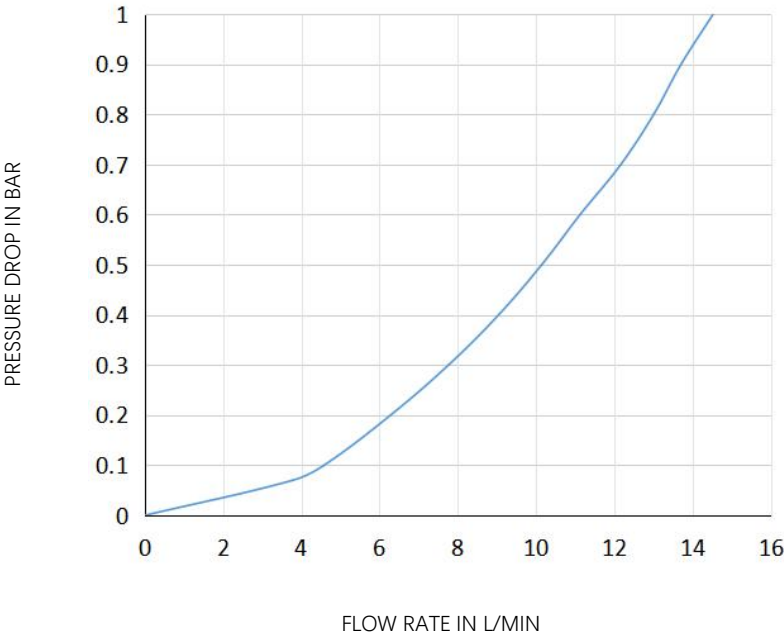
MBT05 Plug, DN05, Aluminium Alloy, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G1/4" Male Thread	30°	Φ19	8	38.35	17	MBT05P-1AMG022N

Flow chart

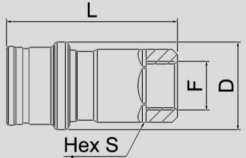
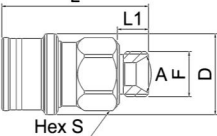
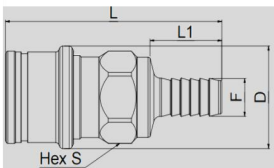
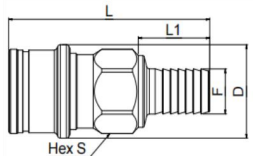
Condition:

- From plug to socket
- Liquid: water

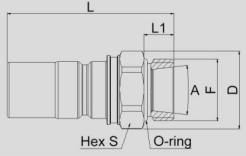
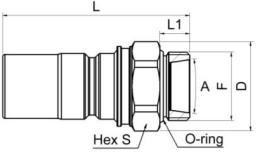
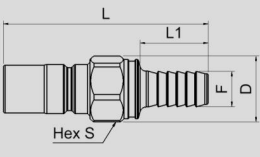
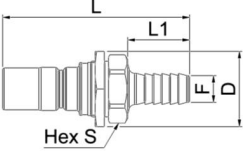




MBT08 Socket, DN08, Aluminium Alloy, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G3/8" Female Thread	N/A	Φ30	N/A	58.3	22	MBT08S-1AFG042N
	G3/8" Male Thread	60.5°	Φ30	12	57.3	24	MBT08S-1AMG042N
	3/8" Hose Barb Push-Lok	N/A	Φ30	22.7	68.5	24	MBT08S-1AWH102N
	1/2 Hose Barb Push-Lok	N/A	Φ30	25	70.3	24	MBT08S-1AWH132N

MBT08 Plug, DN08, Aluminium Alloy, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G3/8" Male Thread	13.34°	Φ21	8	44.8	19	MBT08P-1AMG042N
	M16x1 Male Thread	16.23°	Φ21	7	43.8	19	MBT08P-1AMM162N
	3/8 Hose Barb Push-Lok	N/A	Φ21	22.24	64.9	19	MBT08P-1AWH102N
	3/8 Hose Barb Push-Lok, through-plate connection	N/A	Φ24.5	22.13	66.9	22	MBT08P-1AMH102N

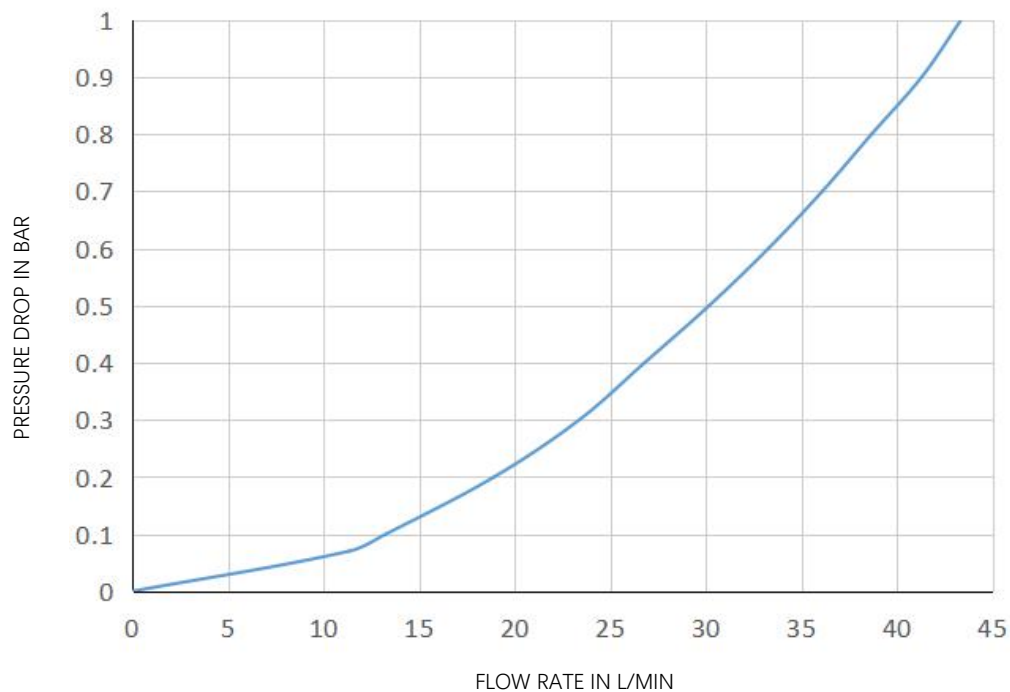


MBT08

Flow chart

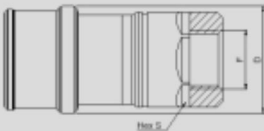
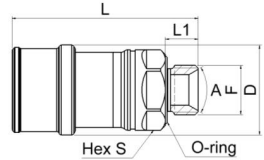
Condition:

- From plug to socket
- Liquid: water

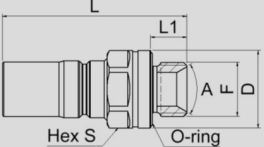




MBT10 Socket, DN10, Aluminium Alloy, EPDM Seal

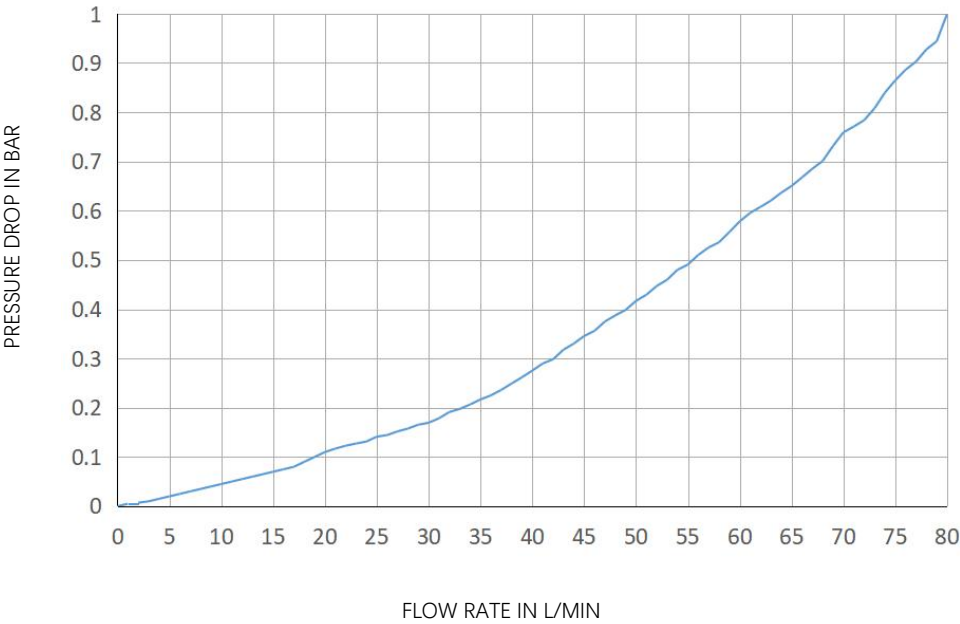
Dimensions	Connection F	A	D	L1	L	S	Part Number
	G1/2" Female Thread	N/A	Φ38	N/A	80	30	MBT10S-1AFG052N
	G1/2" Male Thread	60°	Φ38	14	79.3	30	MBT10S-1AMG052N

MBT10 Plug, DN10, Aluminium Alloy, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G1/2" Male Thread	60°	Φ30	14	71.5	27	MBT10P-1AMG052N

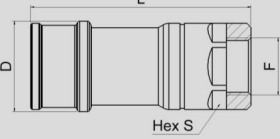
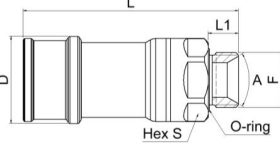
Flow chart

- Condition:**
- From plug to socket
 - Liquid: water

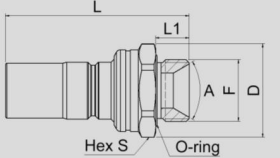




MBT12 Socket, DN12, Aluminium Alloy, EPDM Seal

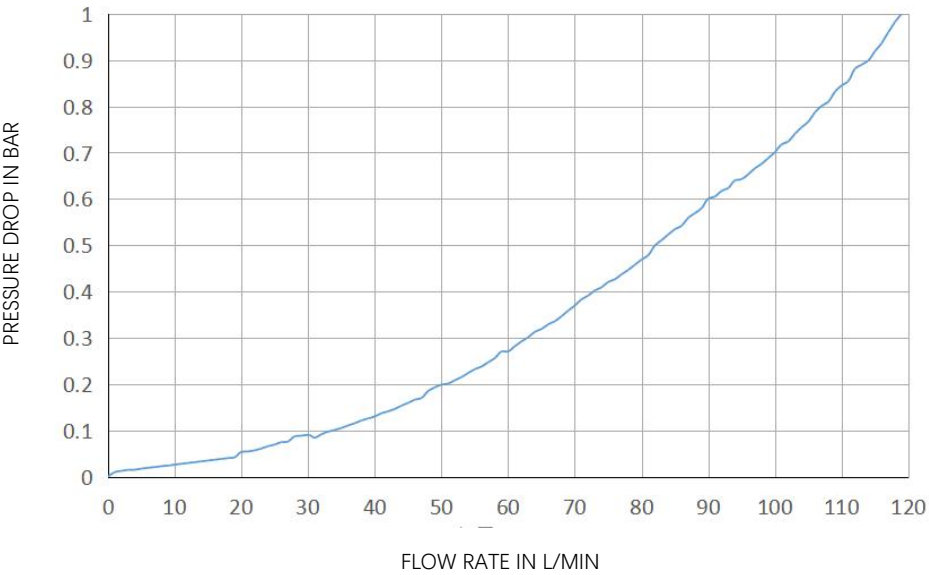
Dimensions	Connection F	A	D	L1	L	S	Part Number
	G3/4" Female Thread	N/A	Φ42	N/A	101.9	36	MBT12S-1AFG082N
	G3/4" Male Thread	60°	Φ42	14.5	103.9	36	MBT12S-1AMG082N

MBT12 Plug, DN12, Aluminium Alloy, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G3/4" Male Thread	60°	Φ40	14.5	79.5	36	MBT12P-1AMG082N

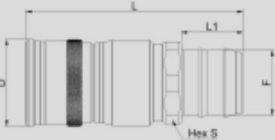
Flow chart

- Condition:
- From plug to socket
 - Liquid: water

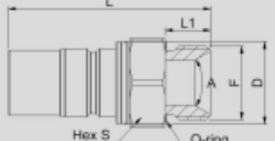




MBT15 Socket, DN15, Aluminium Alloy, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	1" Hose Barb Push-Lok	N/A	Ø38	28	98.8	36	MBT15S-1AWH252N

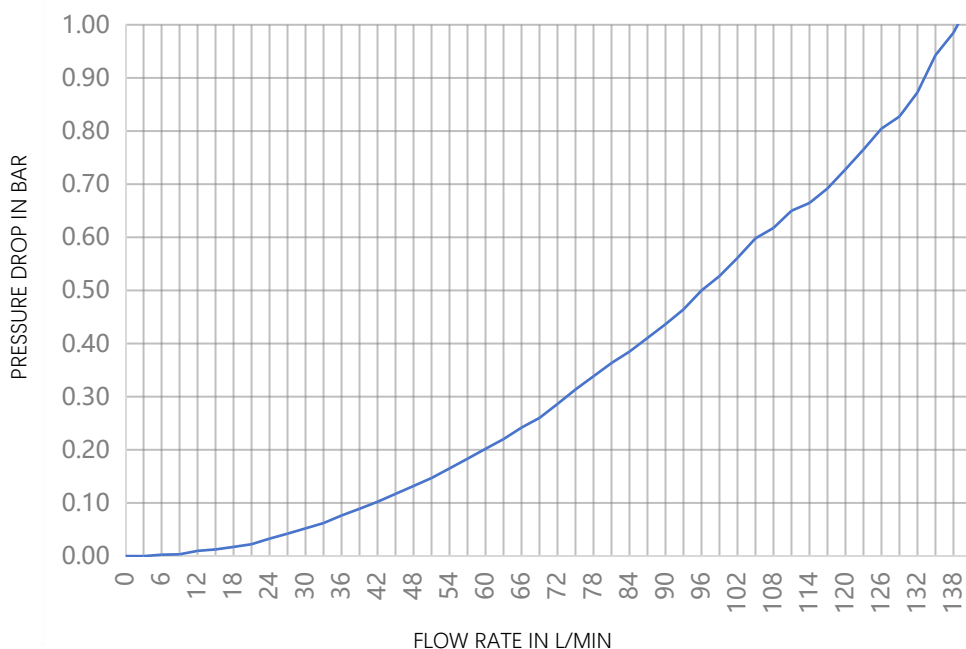
MBT15 Plug, DN15, Aluminium Alloy, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G3/4 Male Thread	60°	Ø36	16	71.5	32	MBT15P-1AMG082N

Flow chart

Condition:

- From plug to socket
- Liquid: water



BLC Series Blind-Mate Coupling

Application	Data Center, HPC, Radar, Semiconductor Equipment
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Technical Features	<ul style="list-style-type: none"> • Blind insert, floating ranfe $\pm 0.5\text{mm}$ • Non-drip • Light weight, small size • Small lead spacing, large allowable connection error • Aluminium alloy body with self-lubricating function • Multiple tail type options
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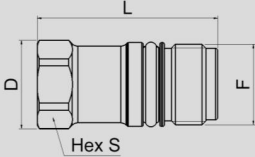


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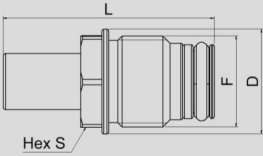
Nominal diameter	DN03~05
Body material	Aluminium alloy and 316L Stainless Steel can be chosen
Seal material	EPDM and FVMQ can be chosen
Working pressure	16bar
Burst pressure	64bar
Working temperature	$-40^{\circ}\text{C} \sim +120^{\circ}\text{C}$
Fluid	Deionized water, purified water, glycol water, propanediol water, fluorinated liquid



BLC03 Socket, DN03, Aluminium Alloy, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	M10X0.75 Male Thread	N/A	Ø11	N/A	23	10	BLC03S-1AMM102N

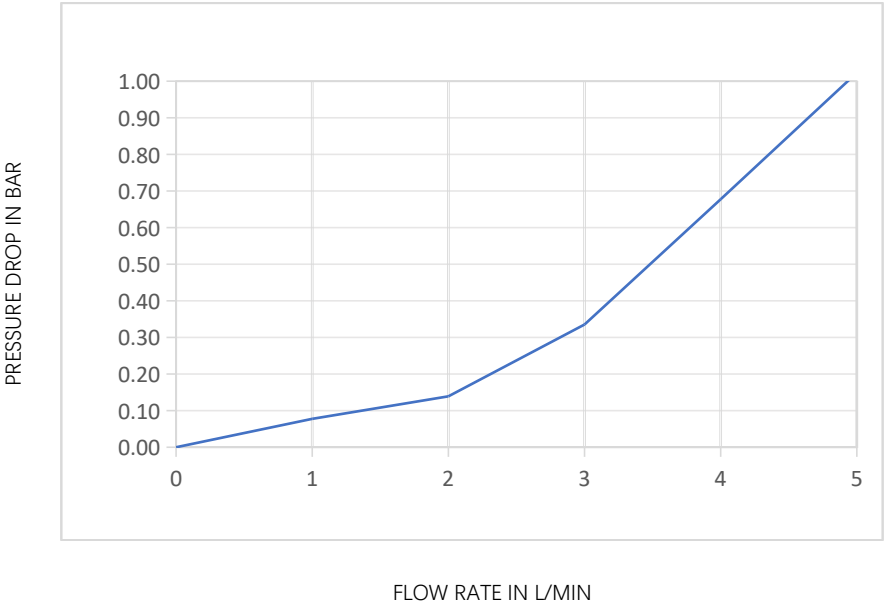
BLC03 Plug, DN03, Aluminium Alloy, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	M10X0.75 Male Thread	N/A	Ø11.5	N/A	23.4	10	BLC03P-1AMM102N

Flow chart

Condition:

- From plug to socket
- Liquid: water





BLC05 Socket, DN05, Aluminium Alloy, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	M19X1 Male Thread	N/A	Ø20.5	20.1	35.1	18	BLC05S-1AMM192N

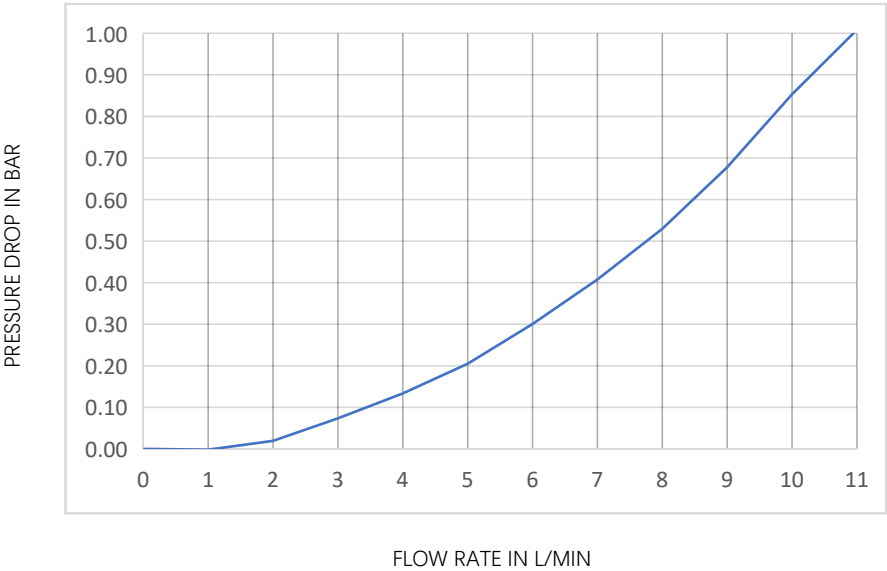
BLC05 Plug, DN05, Aluminium Alloy, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	M16X0.75 Male Thread	N/A	Ø17.5	17	37.6	15	BLC05P-1AMM162N

Flow chart

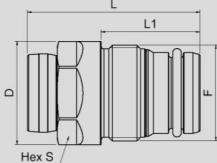
Condition:

- From plug to socket
- Liquid: water

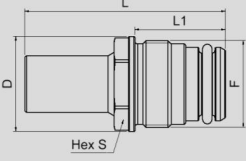




BLC05 Socket, DN05, 316L Stainless Steel, EPDM Seal

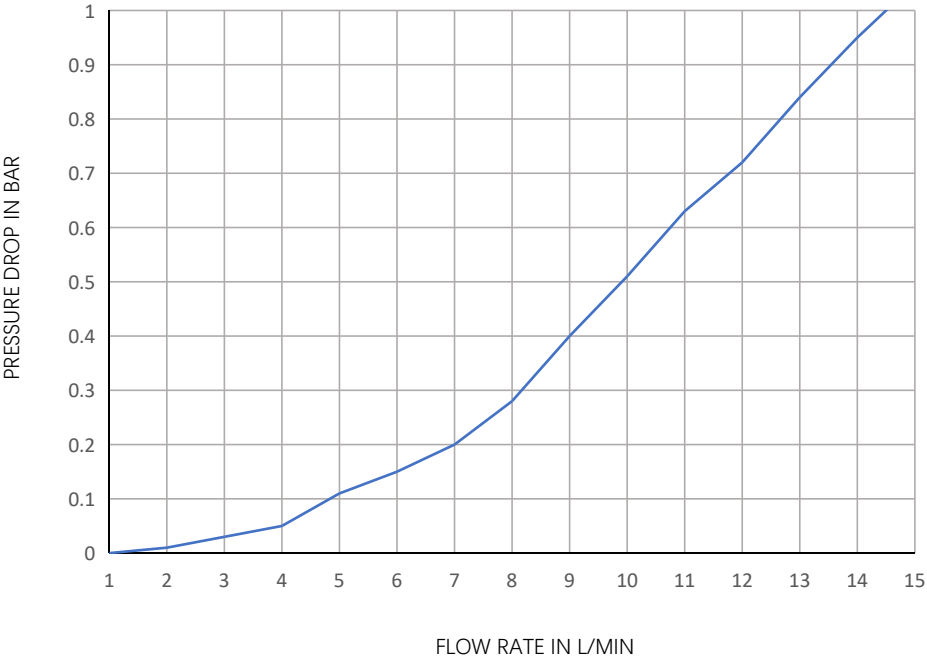
Dimensions	Connection F	A	D	L1	L	S	Part Number
	M19X1 Male Thread	N/A	Ø20.5	20.1	35.1	18	BLC05S-1SMM192N

BLC05 Plug, DN05, 316L Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	M16X0.75 Male Thread	N/A	Ø17.5	17	37.6	15	BLC05P-1SMM162N

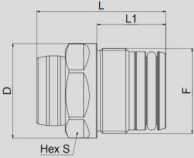
Flow chart

- Condition:**
- From plug to socket
 - Liquid: water

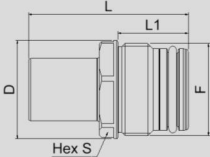




BLC08 Socket, DN08, Aluminium Alloy, EPDM Seal

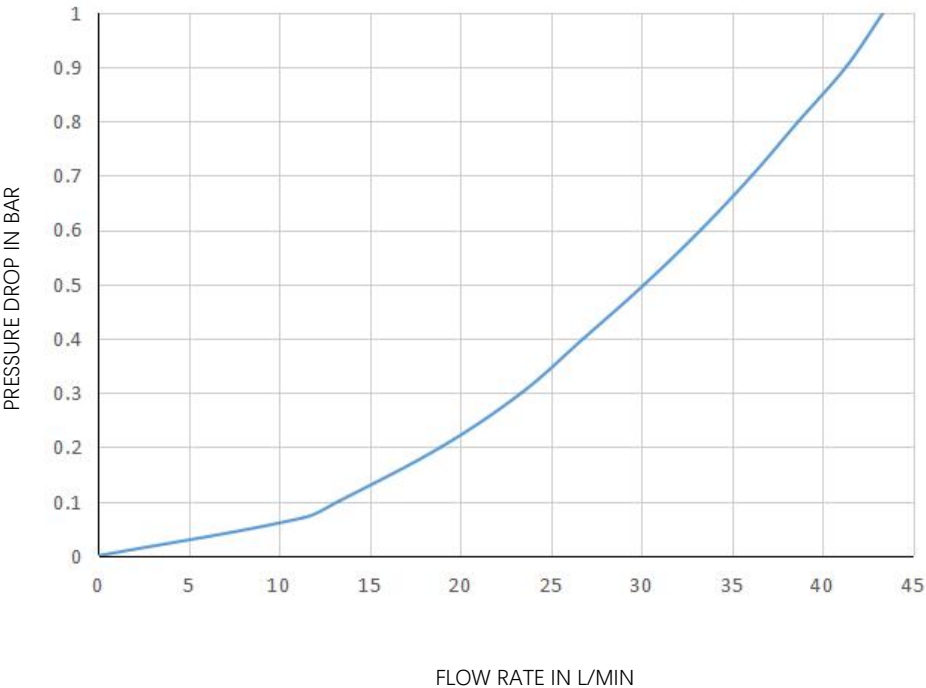
Dimensions	Connection F	A	D	L1	L	S	Part Number
	M25X1 Male Thread	N/A	Ø26.8	20.5	38.5	24	BLC08S-1AMM252N

BLC08 Plug, DN08, Aluminium Alloy, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	M22X1 Male Thread	N/A	Ø23.5	17	38.5	21	BLC08P-1AMM222N

Flow chart

- Condition:**
- From plug to socket
 - Liquid: water



BRC Series Blind-Mate Coupling

Application	Radar
-------------	-------

Technical Features	<ul style="list-style-type: none"> • Blind insert, floating range $\pm 0.5\text{mm}$ • Non-drip • Light weight, small size • Small lead spacing, large allowable connection error • Seal ring impurity protection, supports angular blind insertion • Aluminium alloy body with self-lubricating function • Multiple tail type options
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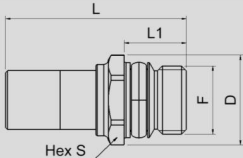


Description

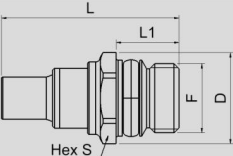
Nominal diameter	DN03~05
Body material	316L Stainless Steel、Aluminium Alloy
Seal material	NBR, EPDM、FVMQ and other seal materials can be chosen
Working pressure	20bar
Burst pressure	80bar
Working temperature	-40℃ ~ +80℃
Fluid	Deionized water, purified water, glycol water, propanediol water



BRC03 Socket, DN03, 316L Stainless Steel, NBR Seal

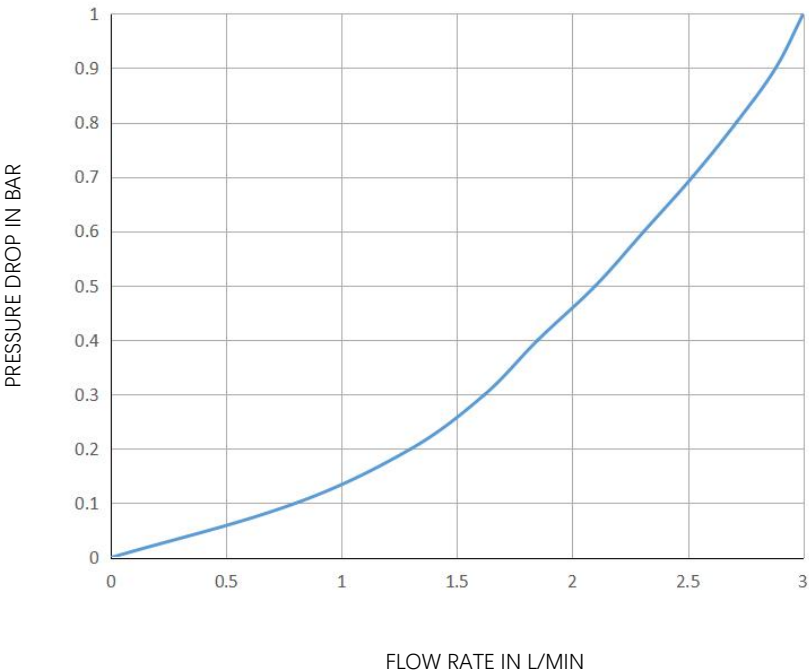
Dimensions	Connection F	A	D	L1	L	S	Part Number
	M11x1" Male Thread	N/A	Φ14.5	10.1	29.3	13	BRC03S-1SMM111N

BRC03 Plug, DN03, 316L Stainless Steel, NBR Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	M11x1" Male Thread	N/A	Φ14.5	10.1	28.5	13	BRC03P-1SMM111N

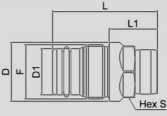
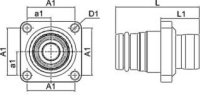
Flow chart

- Condition:**
- From plug to socket
 - Liquid: water

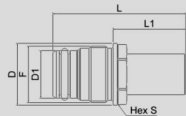




BRC05 Socket, DN05, Aluminium Alloy, NBR Seal

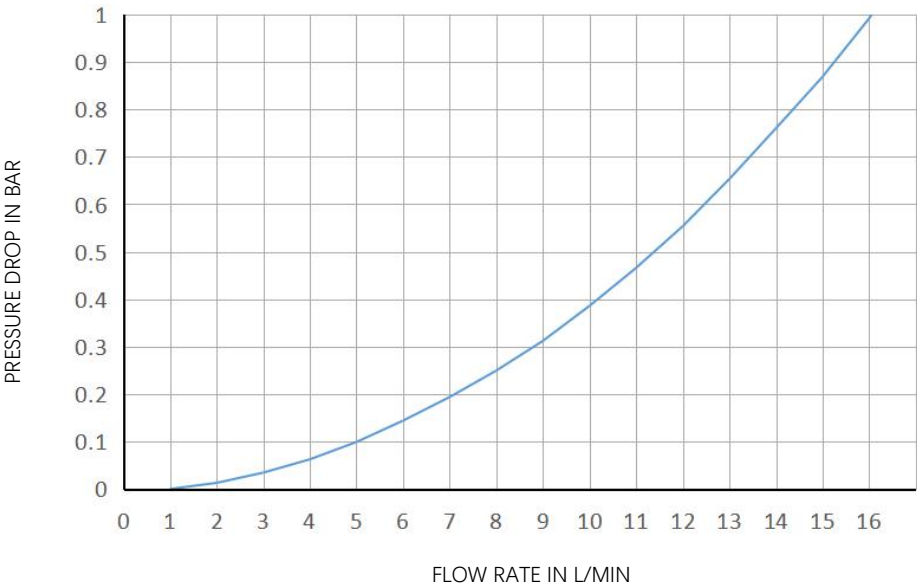
Dimensions	Connection F	A	A1	D	L	L1	S	a1	D1	Part Number
	Male Thread M19 x1	N/A	N/A	Ø20.5	36.8	17	18	N/A	Ø16	BRC05S-1AMM191N
	Flange 21 x21	N/A	21	N/A	36.8	17	N/A	10.5	Ø3.5	BRC05S-1AWF001N

BRC05 Plug, DN05, Aluminium Alloy, NBR Seal

Dimensions	Connection F	A	A1	D	L	L1	S	a1	D1	Part Number
	Male Thread M16x0.75	N/A	N/A	Ø17	37.5	20.5	15	N/A	Ø13.5	BRC05P-1AMM161N

Flow chart

- Condition:
- From plug to socket
 - Liquid: water



UQDB Series Blind-Mate Coupling

Application	Data Center, HPC
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Technical Features	<ul style="list-style-type: none"> • Meet OCP standard • Non-drip • Floating range $\pm 1\text{mm}$ • Interchangeable with OCP standard products
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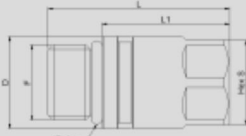


Description

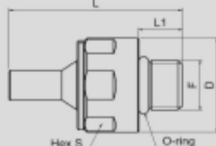
Nominal diameter	DN03, 05, 07, 10
Body material	316L Stainless Steel
Seal material	EPDM
Working pressure	20bar
Burst pressure	80bar
Working temperature	$-40^{\circ}\text{C} \sim +120^{\circ}\text{C}$
Fluid	Deionized water, purified water, glycol water, propanediol water, fluorinated liquid, etc



UQDB02 Socket, DN03, 316L Stainless Steel, EPDM Seal

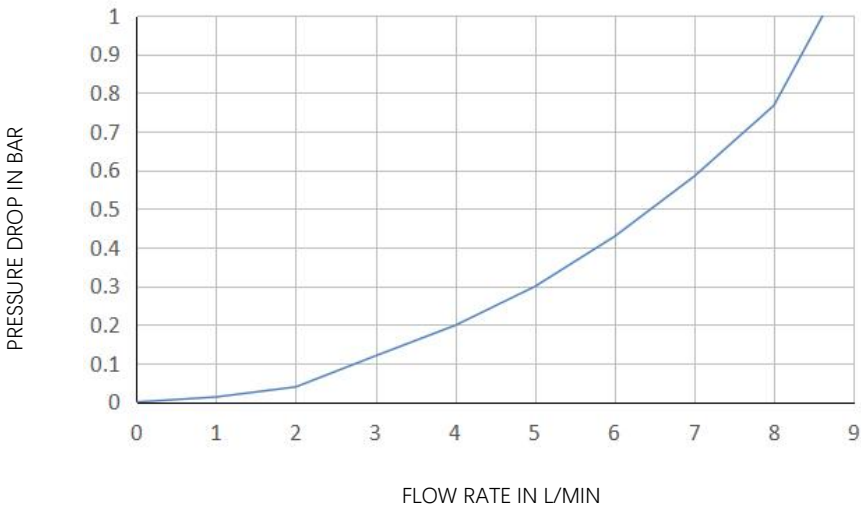
Dimensions	Connection F	A	D	L1	L	S	Part Number
	9/16-18UNF Male Thread	N/A	Φ17.5	23.62	33.62	16	UQDB02S-1SMU062N

UQDB02 Plug, DN03, 316L Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	7/16-20UNF Male Thread	N/A	Φ21	9.1	36.1	20	UQDB02P-1SMU042N

Flow chart

- Condition:
- From plug to socket
 - Liquid: water

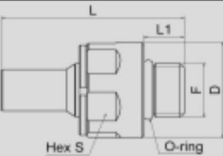




UQDB04 Socket, DN05, 316L Stainless Steel, EPDM Seal

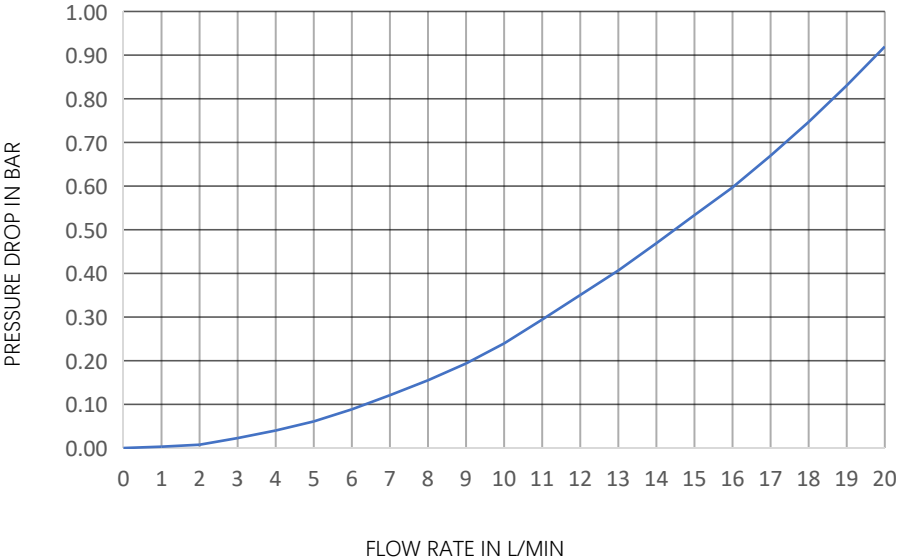
Dimensions	Connection F	A	D	L1	L	S	Part Number
	3/4-16 UNF Male Thread	N/A	Φ22.3	28.5	39.6	20	UQDB04S-1SMU082N

UQDB04 Plug, DN05, 316L Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	9/16-18UNF Male Thread	N/A	Φ25.4	10	45.5	24	UQDB04P-1SMU062N

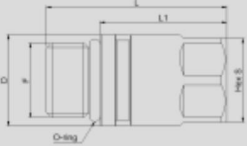
Flow chart

- Condition:
- From plug to socket
 - Liquid: water

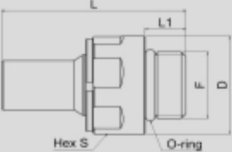




UQDB06 Socket, DN07, 316L Stainless Steel, EPDM Seal

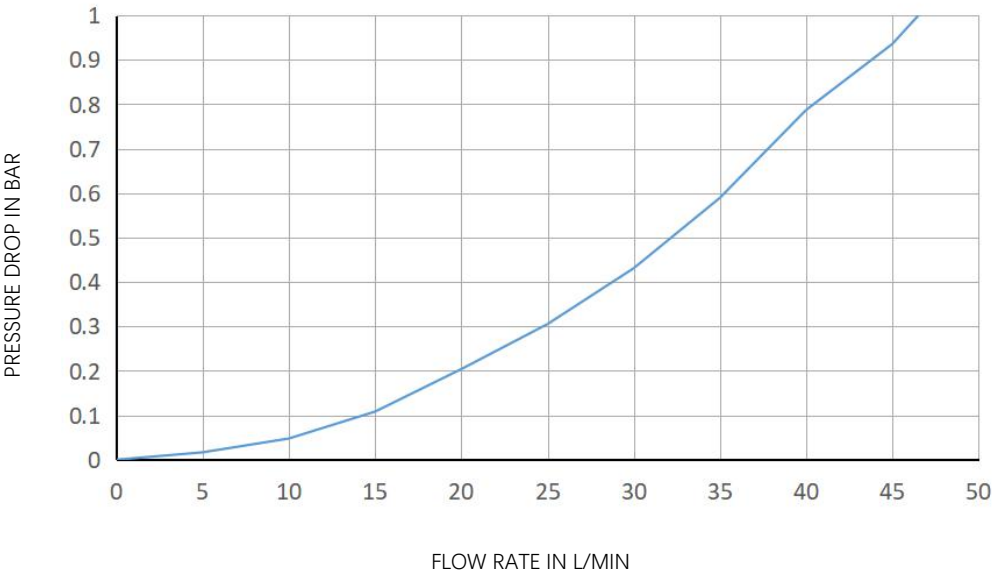
Dimensions	Connection F	A	D	L1	L	S	Part Number
	7/8-14 UNF Male Thread	N/A	Φ27.5	31.75	44.45	25	UQDB06S-1SMU102N

UQDB06 Plug, DN07, 316L Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	3/4-16UNF Male Thread	N/A	Φ27.5	11.1	50	27	UQDB06P-1SMU082N

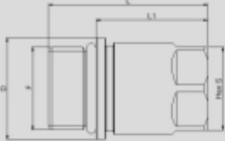
Flow chart

- Condition:
- From plug to socket
 - Liquid: water

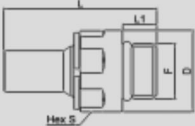




UQDB08 Socket, DN10, 316L Stainless Steel, EPDM Seal

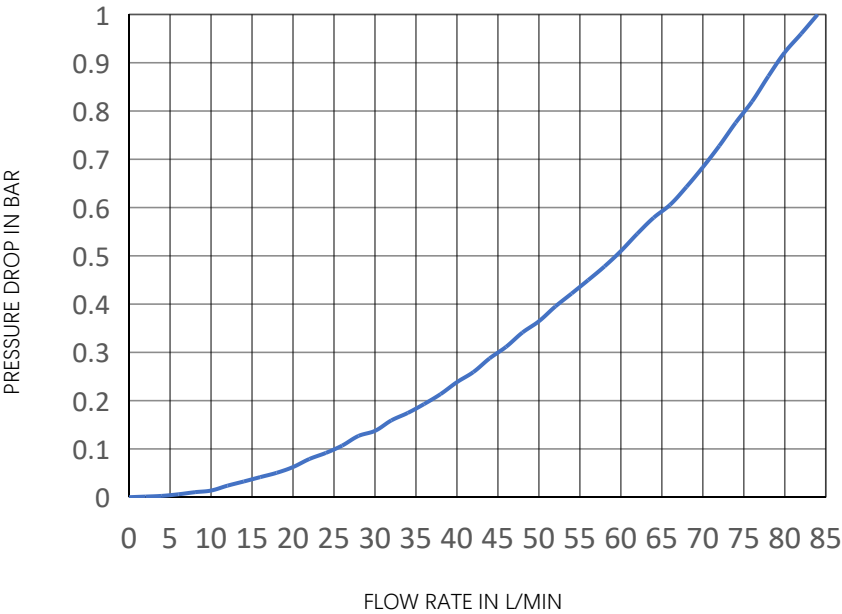
Dimensions	Connection F	A	D	L1	L	S	Part Number
	1 1/16-12UNF Male Thread	N/A	Φ33	35.56	50.66	27	UQDB08S-1SMU122N

UQDB08 Plug, DN10, 316L Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	7/8-14UNF Male Thread	N/A	Φ33	12.7	55.6	30	UQDB08P-1SMU102N

Flow chart

- Condition:
- From plug to socket
 - Liquid: water



MQDB Series Blind-Mate Coupling

Application

Data Center, HPC

Technical Features

- Non-drip
- Floating range $\pm 1\text{mm}$
- Compact size
- NVIDIA standard

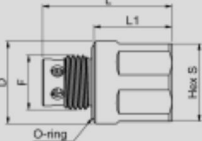


Description

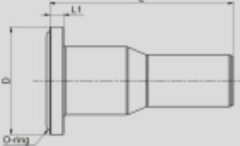
Nominal diameter	DN02、03、04
Body material	Stainless Steel
Seal material	EPDM
Working pressure	6.9bar
Burst pressure	20.7bar
Working temperature	-40℃ ~ +120℃
Fluid	Deionized water, purified water, glycol water, propanediol water



MQDB02 Socket, DN02, Stainless Steel, EPDM Seal

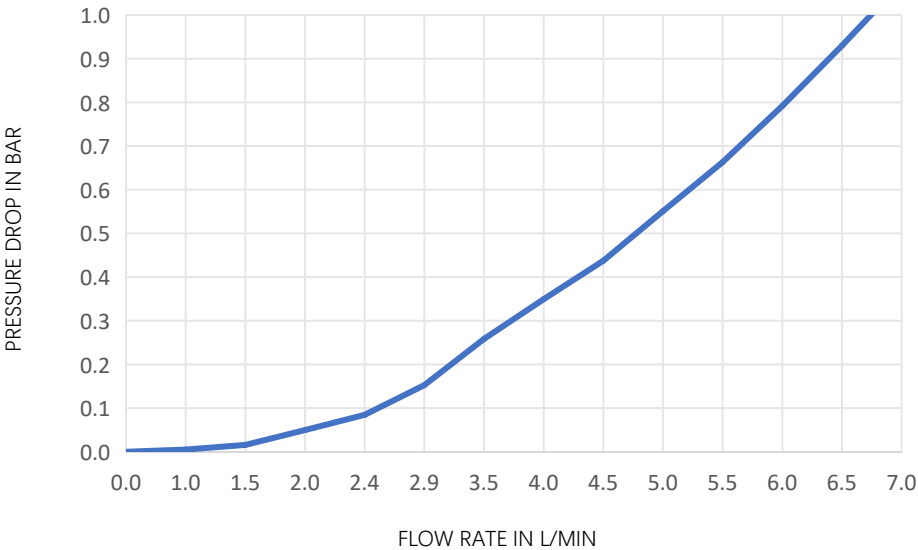
Dimensions	Connection F	A	D	L1	L	S	Part Number
	7/16-20UNF Male Thread	N/A	Φ16.85	15.6	25.9	15.9	MQDB02S-1SMU042N

MQDB02 Plug, DN02, Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	N/A	N/A	Φ13.9	1.8	23.4	N/A	MQDB02P-1SM0002N

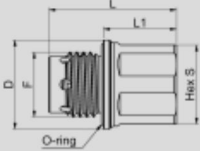
Flow chart

- Condition:
- From plug to socket
 - Liquid: water

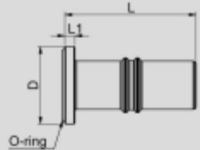




MQDB03 Socket, DN03, Stainless Steel, EPDM Seal

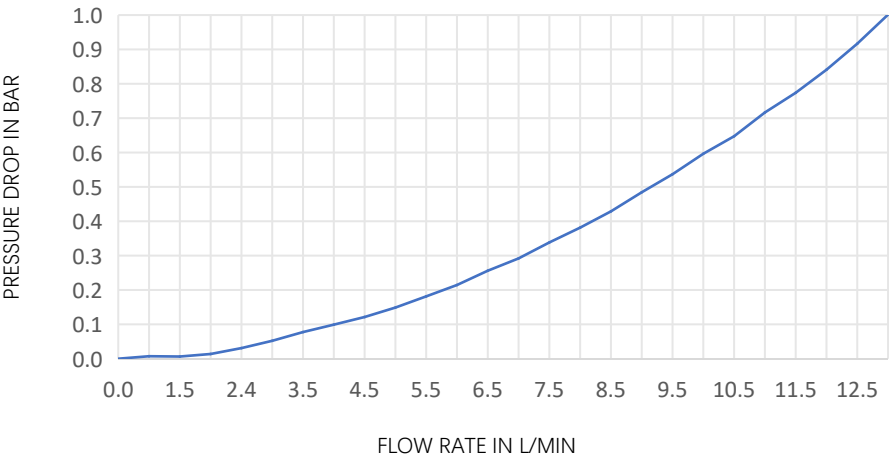
Dimensions	Connection F	A	D	L1	L	S	Part Number
	G1/4" Male Thread	N/A	Φ18	14.45	25.25	16	MQDB03S-1SMG022N

MQDB03 Plug, DN03, Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	N/A	N/A	Φ14.1	1.8	23.4	N/A	MQDB03P-1SM0002N

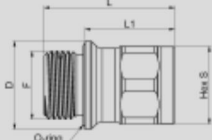
Flow chart

- Condition:**
- From plug to socket
 - Liquid: water

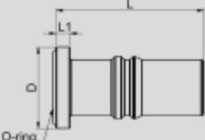
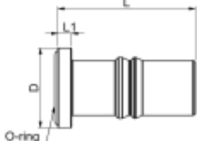




MQDB04 Socket, DN04, Stainless Steel, EPDM Seal

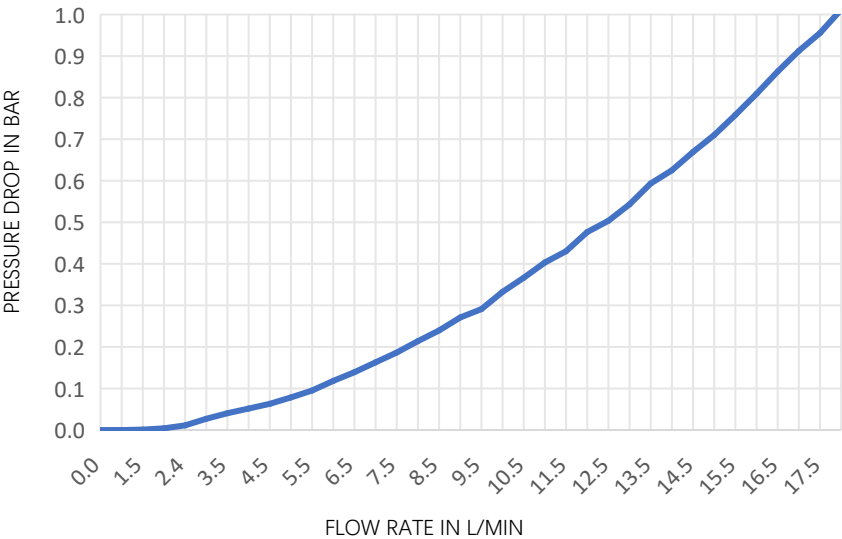
Dimensions	Connection F	A	D	L1	L	S	Part Number
	G3/8" Male Thread	N/A	21.6	21.5	31.3	19	MQDB04S-1SMG042N

MQDB04 Plug, DN04, Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	N/A	N/A	Φ16.1	2.7	28.6	N/A	MQDB04P-1SM0002N
	N/A	N/A	Φ16.1	2.7	27.1	N/A	MQDB04P-MINI2N

Flow chart

- Condition:**
- From plug to socket
 - Liquid: water



BXC Series Blind-Mate Coupling

Application

Radar, Semiconductor Equipment

Technical Features

- Non-drip
- The socket exceeds the 2 to 6 Bar pressure relief to protect the system when disconnected, and resets at 2 Bar.
- Small flow channel pitch, high tolerance for misalignment
- Aluminium alloy body with self-lubricating function

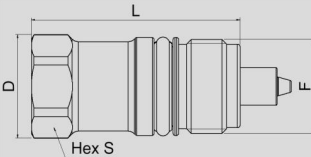


Description

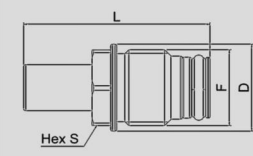
Nominal diameter	DN03~05
Body material	Aluminium Alloy、316L Stainless Steel
Seal material	EPDM, FKM、FVMQ and other seal materials can be chosen
Working pressure	20bar
Relief pressure	2~6Bar (Factory setting pressure relief value)
Burst pressure	80bar
Working temperature	-40℃ ~ +80℃
Fluid	Deionized water, purified water, glycol water, propanediol water



BXC03 Socket, DN03, Aluminium Alloy, EPDM Seal

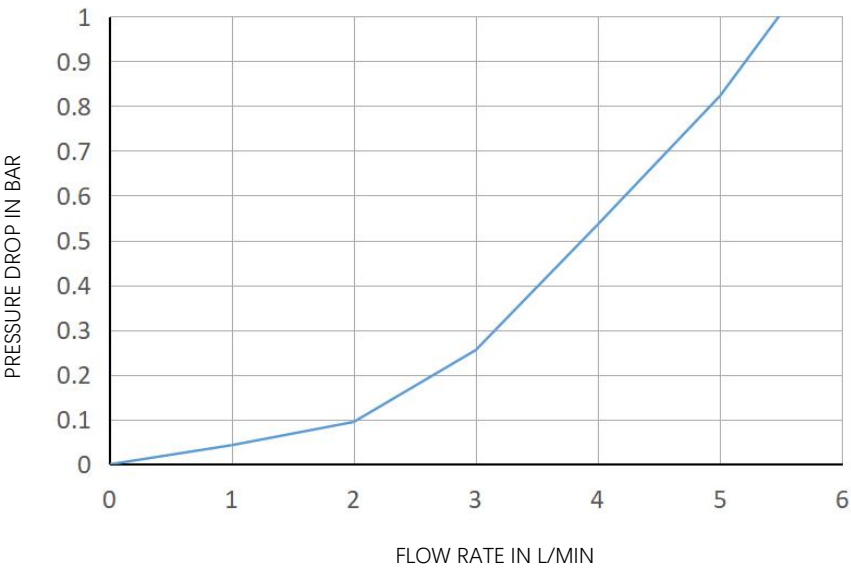
Dimensions	Connection F	A	D	L1	L	S	Part Number
	M10X0.75 Male Thread	N/A	Ø11	N/A	23	10	BXC03S-1AMM102N

BXC03 Plug, DN03, Aluminium Alloy, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	M10X0.75 Male Thread	N/A	Ø11.2	N/A	23.4	10	BXC03P-1AMM102N

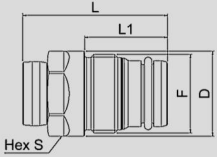
Flow chart

- Condition:**
- From plug to socket
 - Liquid: water

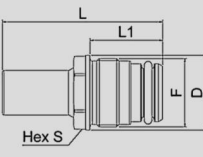




BXC05 Socket, DN05, Aluminium Alloy, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	M19X1 Male Thread	N/A	Ø20.5	20.1	35.1	18	BXC05S-1AMM192N

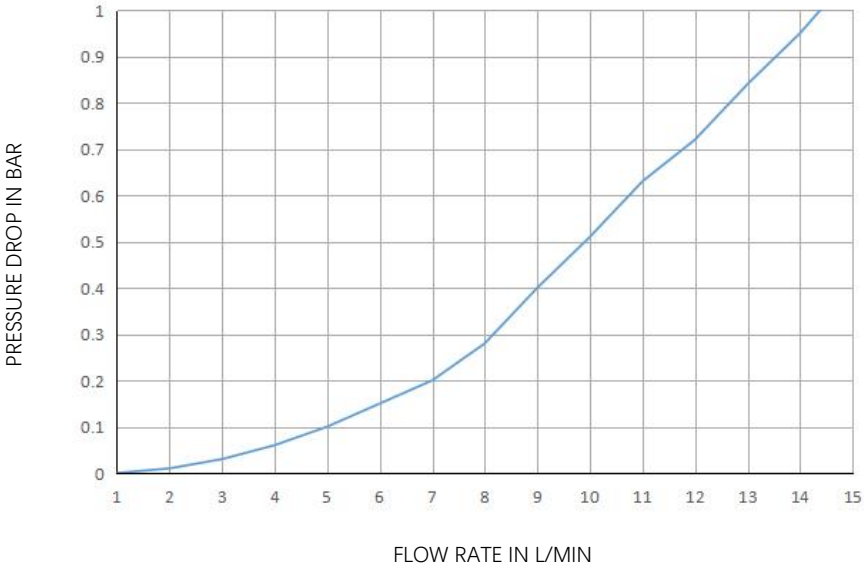
BXC05 Plug, DN05, Aluminium Alloy, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	M16X0.75 Male Thread	N/A	Ø17.5	17	37.6	15	BXC05P-1AMM162N

Flow chart

Condition:

- From plug to socket
- Liquid: water



BMC Series Blind-Mate Coupling

Application

Data Center Blind Plug Cabinets

Technical Features

- Radial Float: $\pm 2.5 \sim \pm 5 \text{mm}$, Angular Misalignment: $\pm 2.7^\circ$
- No need for a floating extension mechanism
- Reduce the cost of the overall blind insertion program
- Meet OCP standard




Description

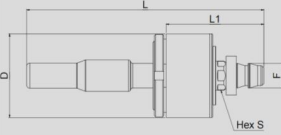
Nominal diameter	DN05, 10
Body material	316L Stainless Steel
Seal material	EPDM
Working pressure	20bar
Burst pressure	80bar
Working temperature	-15°C ~ 90°C
Fluid	Deionized water, purified water, glycol water, propanediol water, fluorinated liquid
Others	Please contact us if you have any request for tail type or seal material.



BMC05 Socket, DN05, Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	3/4-16 UNF Male Thread	N/A	Ø32	11.1	86.1	22	BMC05S-1SMU082N

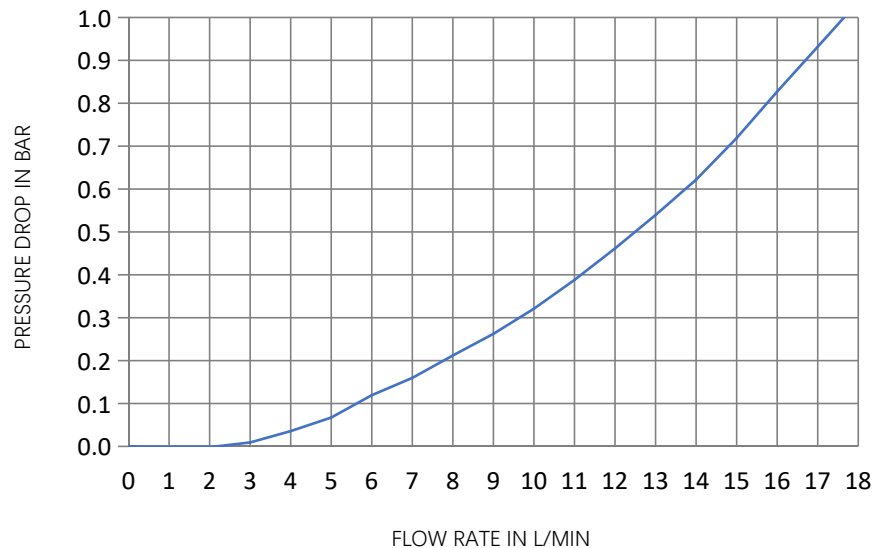
BMC05 Plug, DN05, Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	3/8" Hose barb Push-Lok	N/A	Ø40	47.4	115.1	13	BMC05P-1SWP062N

Flow chart

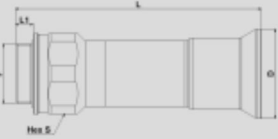
Condition:

- From plug to socket
- Liquid: water

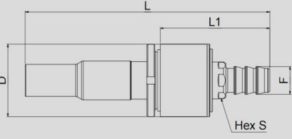




BMC10 Socket, DN10, Stainless Steel, EPDM Seal

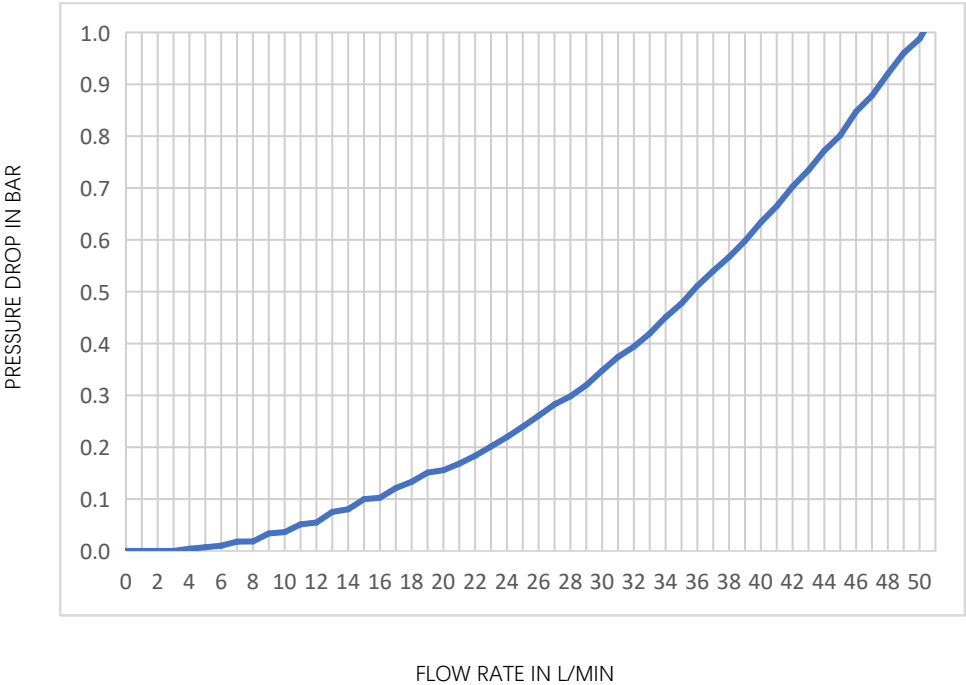
Dimensions	Connection F	A	D	L1	L	S	Part Number
	M24X0.75 Male Thread	N/A	Ø36	7.4	101.5	32	BMC10S-1SMM242N

BMC10 Plug, DN10, Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	1/2" Hose barb Push-Lok	N/A	Ø39.5	60.85	135.9	19	BMC10P-1SWP082N

Flow chart

- Condition:**
- From plug to socket
 - Liquid: water



BFC Series Blind-Mate Coupling

Application

CDU Refilling

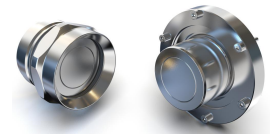
Technical Features

- Short mating stroke
- Floating range $\pm 1.5\text{mm}$
- Abrasion-resistant and high corrosion-resistant

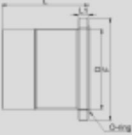


Description


Nominal diameter	DN20, 25
Body material	Aluminium Alloy、Stainless Steel
Seal material	EPDM, or FKM can be chosen
Working pressure	20bar
Burst pressure	80bar
Working temperature	-40°C - +120°C
Fluid	Coolant, purified water, etc
Others	Please contact us if you have any request for tail type or seal material.



BFC20 Socket, DN20, Aluminium Alloy, FVMQ Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	Flange 64X64	N/A	Φ50	6	53	N/A	BFC20S-1AWF644N

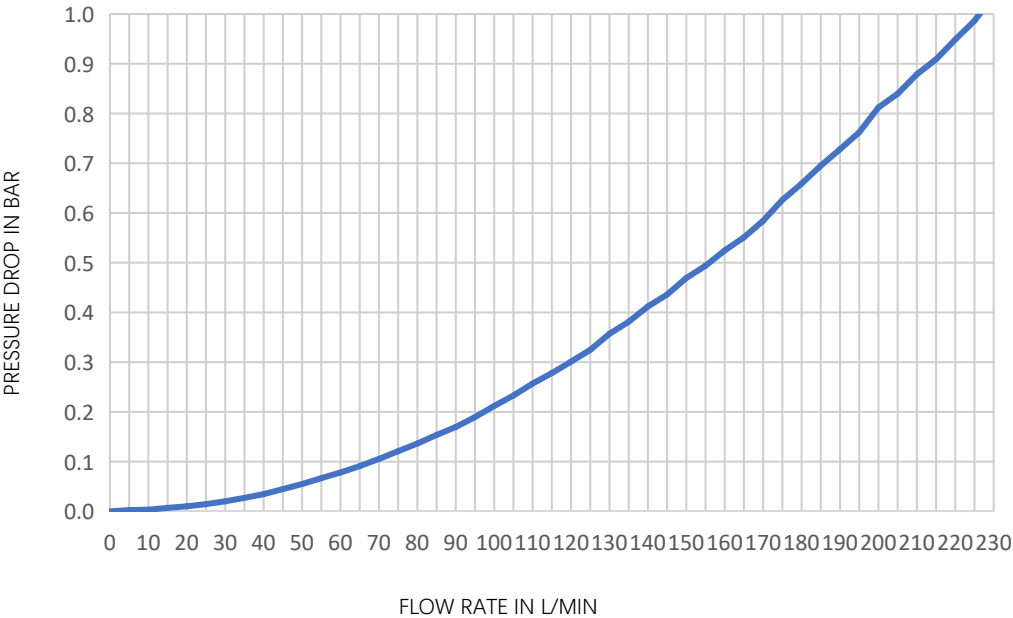
BFC20 Plug, DN20, Aluminium Alloy, FVMQ Seal

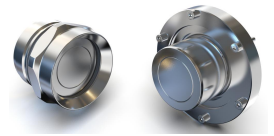
Dimensions	Connection F	A	D	L1	L	S	Part Number
	Flange 85X70	N/A	Φ70	5.5	48.6	N/A	BFC20P-1AWF014N

Flow chart

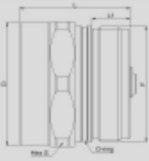
Condition:

- From plug to socket
- Liquid: water

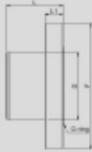




BFC25 Socket, DN25, Stainless Steel, EPDM Seal

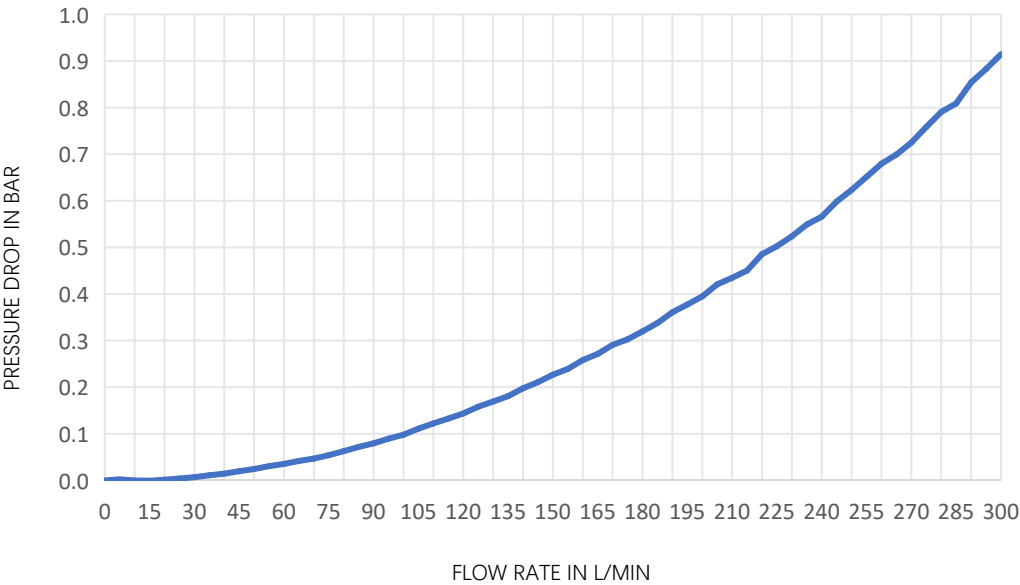
Dimensions	Connection F	A	D	L1	L	S	Part Number
	M60X2 Male Thread	N/A	Φ64	19.5	56.5	65	BFC25S-1SMM602N

BFC25 Plug, DN25, Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	Flange Φ95	N/A	Φ51	13.5	42	N/A	BFC25P-1SWF952N

Flow chart

- Condition:**
- From plug to socket
 - Liquid: water



BDC Series Couplings

Application

Energy Physics, Solid State Amplifier

Technical Features

- Blind insert self-locking, floating ranfe $\pm 2\text{mm}$
- Slider self-locking and position adjustment
- Small lead spacing, large allowable connection error
- Non-drip
- Seal ring impurity protection, supports angular blind insertion
- Multiple tail type options

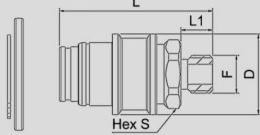
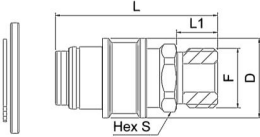
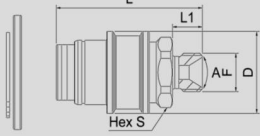
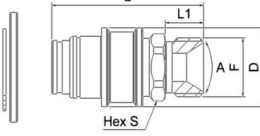


Description

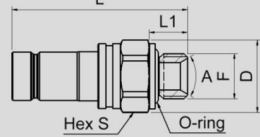
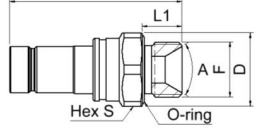
Nominal diameter	DN06~09
Body material	316L Stainless Steel
Seal material	EPDM
Working pressure	20bar
Burst pressure	80bar
Working temperature	-40°C ~ +120°C
Fluid	Deionized water, purified water, glycol water, propanediol water
Others	Please contact us if you have any request for tail type or seal material.



BDC06 Socket, DN06, 316L Stainless Steel, EPDM Seal

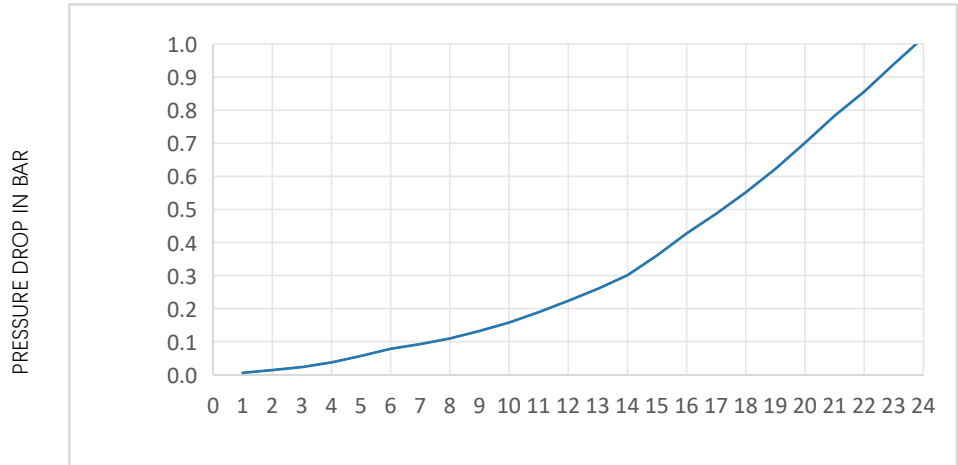
Dimensions	Connection F	A	D	L1	L	S	Part Number
	G1/4" Male Thread	N/A	Ø28	11.2	54.1	22	BDC06S-1SMG022N
	G1/2" Male Thread	N/A	Ø28	14.5	57.4	22	BDC06S-1SMG052N
	G1/4" Male Thread (60°Cone)	60.5°	Ø28	11	53.9	22	BDC06S-1SMT022N
	G1/2" Male Thread (60°Cone)	60.5°	Ø28	14.5	57.4	22	BDC06S-1SMT052N

BDC06 Plug, DN06, 316L Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G1/4" Male Thread	60.5°	Ø21	11.2	51.3	19	BDC06P-1SMG022N
	G3/8" Male Thread	60.5°	Ø24	12	52.1	22	BDC06P-1SMG042N

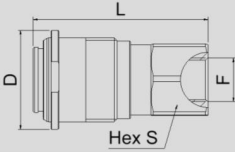
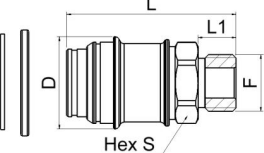
Flow chart

- Condition:**
- From plug to socket
 - Liquid: water

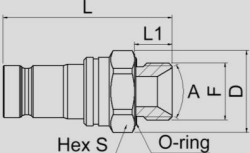




BDC09 Socket, DN09, 316L Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G3/8" Female Thread	N/A	Ø37.8	N/A	67.1	27	BDC09S-1SFG042N
	G1/2" Male Thread	N/A	Ø34	14	62.6	27	BDC09S-1SMG052N

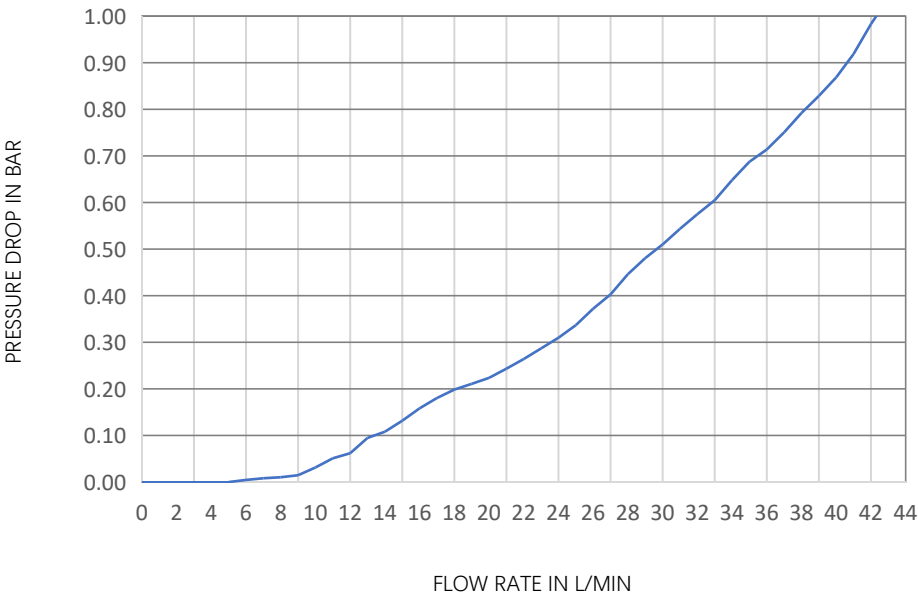
BDC09 Plug, DN09, 316L Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G1/2" Male Thread	60.5°	Ø30	14	63	27	BDC09P-1SMG052N

Flow chart

Condition:

- From plug to socket
- Liquid: water



SAF Series Coupling

Application

Two-Phase Cold Plate Cooling

Technical Features

- Connection and disconnection by thread tightening
- Non-drip
- Teflon self-lubricating surface treatment to maintain long-lasting lubrication performance
- Can be connected and disconnected at a working pressure of 4Mpa.
- Abrasion-resistant and high corrosion-resistant

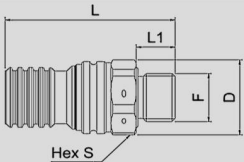


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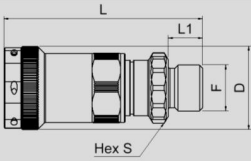
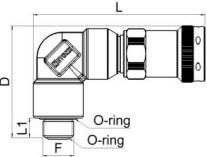
Nominal diameter	DN06~09
Body material	Aluminium Alloy
Seal material	HNBR, FKM、FVMQ and other seal materials can be chosen
Working pressure	40bar
Burst pressure	160bar
Working temperature	-15℃ ~ +125℃
Fluid	fluorinated liquid
Others	Please contact us if need red/blue colored marks



SAF06 Socket, DN06, Aluminium Alloy, HNBR Seal

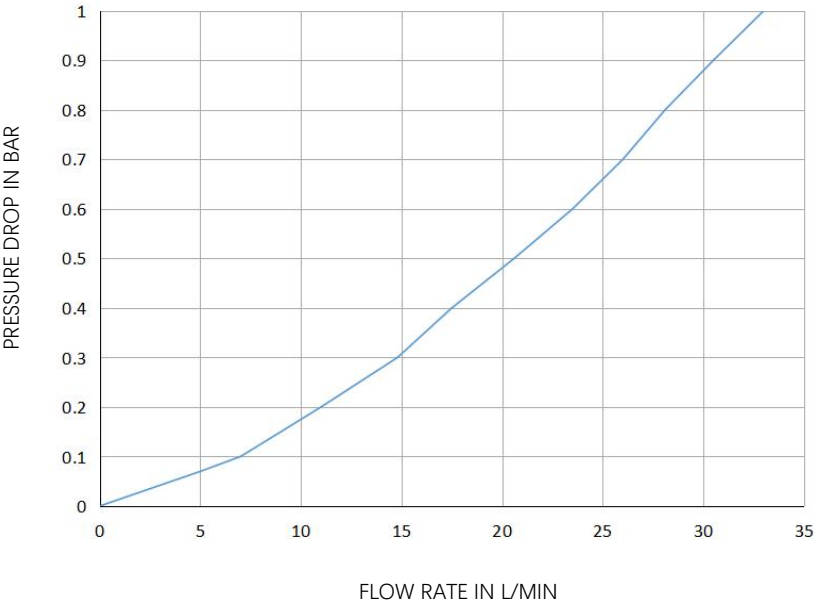
Dimensions	Connection F	A	D	L1	L	S	Part Number
	M16X1 .5 Male Thread	N/A	Ø25	12.1	53.05	23	SAF06S-1AMM165N

SAF06 Plug, DN06, Aluminium Alloy, HNBR Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	M16X1 .5 Male Thread	N/A	Ø29	12	69.65	22	SAF06P-1AMM165N
	M16X1 .5 Male Thread	N/A	57.5	10.1	76.45	N/A	SAF06P-1AEM165N

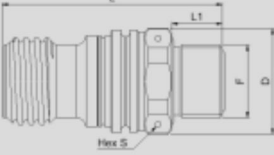
Flow chart

- Condition:
- From plug to socket
 - Liquid: water

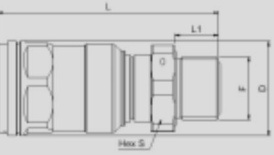




SAF09 Socket, DN09, Aluminium Alloy, HNBR Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	M22X1 .5 Male Thread	N/A	Ø32	15	65.5	30	SAF09S-1AMM225N

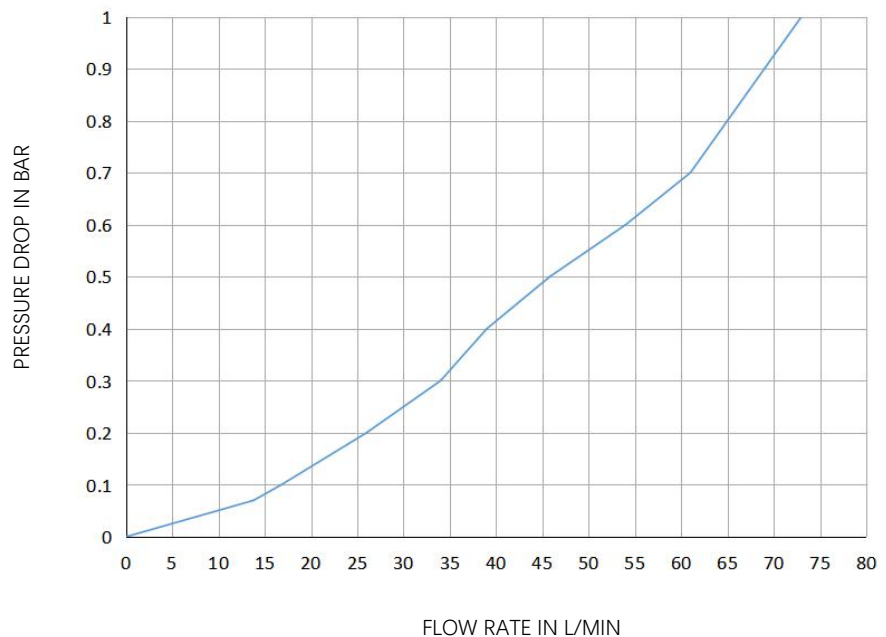
SAF09 Plug, DN09, Aluminium Alloy, HNBR Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	M22X1 .5 Male Thread	N/A	Ø33	15	75.22	30	SAF09P-1AMM225N

Flow chart

Condition:

- From plug to socket
- Liquid: water



MBD Series Compact Coupling

Application

Data Center, HPC

Technical Features

- Non-drip
- Compact design, small size
- Low pressure drop
- Bi-directional stop valve
- Multiple tail type options

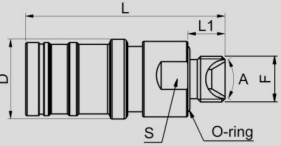
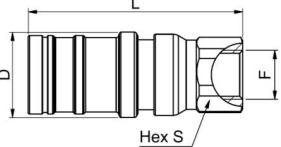
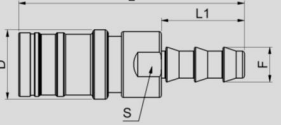


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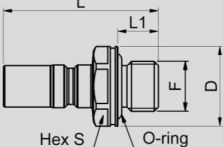
Nominal diameter	DN04
Body material	Stainless Steel
Seal material	EPDM, HNBR、FVMQ and other seal materials can be chosen
Working pressure	20bar
Burst pressure	80bar
Working temperature	-55℃ ~ +125℃
Fluid	Deionized water, purified water, glycol water, propanediol water, fluorinated liquid, oils
Others	Please contact us if need red/blue colored mark



MBD04 Socket, DN04, 316L Stainless Steel, EPDM Seal

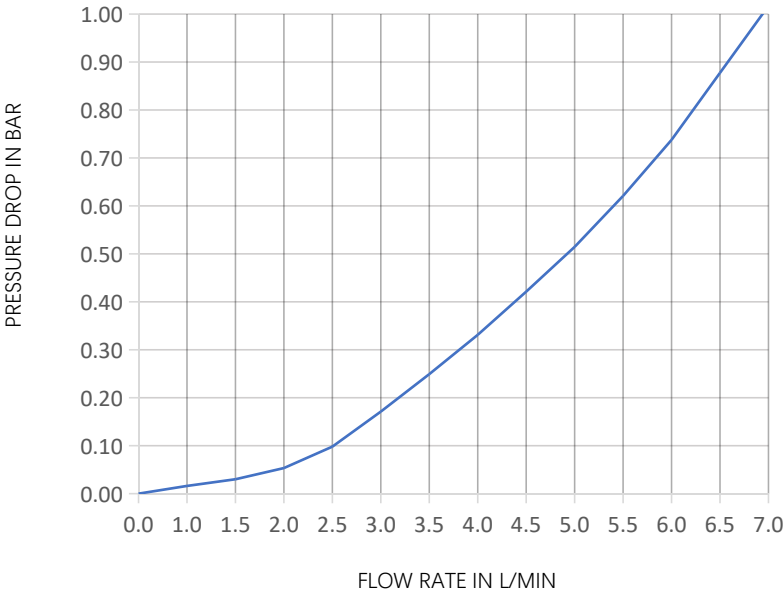
Dimensions	Connection F	A	D	L1	L	S	Part Number
	G1/8" Male Thread	60.5°	Φ17	8	43	15	MBD04S-1SMG012N
	G1/8" Female Thread	N/A	Φ17	N/A	43	14	MBD04S-1SFG012N
	1/4" Hose Barb Push-Lok	N/A	Φ17	20.4	55.4	15	MBD04S-1SWP042N

MBD04 Plug, DN04, 316L Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G1/8" Male Thread	N/A	Φ15.5	8	30.5	14	MBD04P-1SMG012N

Flow chart

- Condition:
- From plug to socket
 - Liquid: water



SLC Series Bayonet Type Coupling

Application	Radar
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Technical Features	<ul style="list-style-type: none"> • Plugs and sockets adopt bayonet locking method • Non-drip • Meet the vibration and shock requirements of airborne, vehicle and shipboard fields • Aluminium alloy body with self-lubricating function • Multiple tail type options
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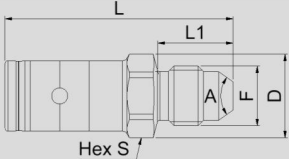
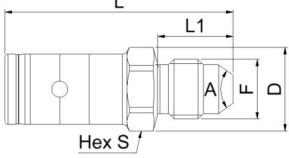


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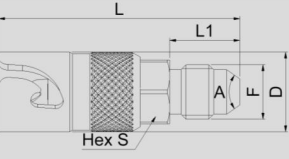
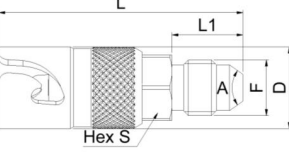
Nominal diameter	DN03~08
Body material	Aluminium Alloy and 316L Stainless Steel can be chosen
Seal material	EPDM and FVMQ can be chosen
Working pressure	20bar
Burst pressure	80bar
Working temperature	-40°C ~ +120°C
Fluid	Deionized water, purified water, glycol water, propanediol water, fluorinated liquid
Others	Please contact us if need red/blue colored marks



SLC03 Socket, DN03, Aluminium Alloy, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	7/16-20UNF Male Thread	70°	Φ15.5	14	42.4	14	SLC03S-1AMU042N
	M10X1 Male Thread	70°	10	14	42.4	14	SLC03S-1AMM102N

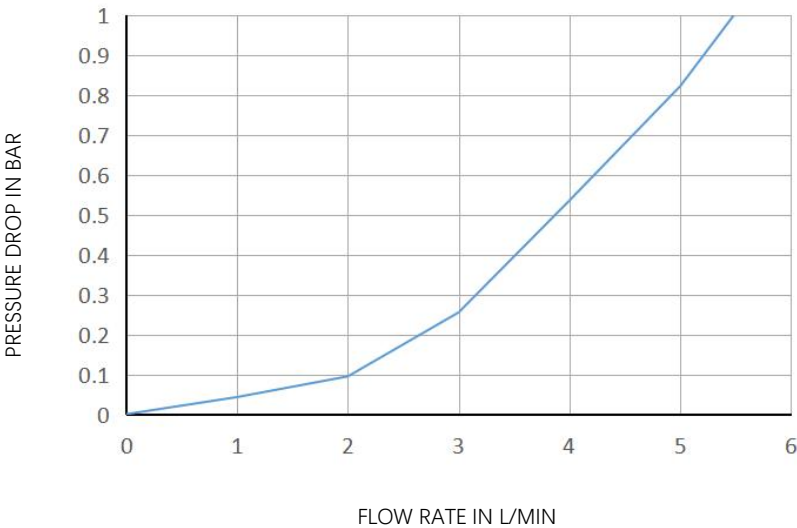
SLC03 Plug, DN03, Aluminium Alloy, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	7/16-20UNF Male Thread	70°	Φ16.3	14.2	49	13	SLC03P-1AMU042N
	M10X1 Male Thread	70°	10	12.95	47.7	13	SLC03P-1AMM102N

Flow chart

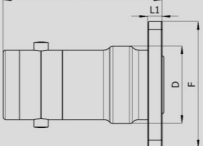
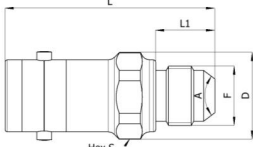
Condition:

- From plug to socket
- Liquid: water

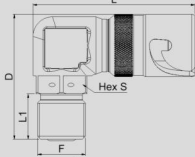
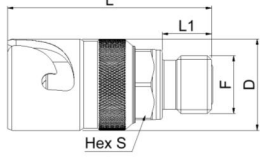
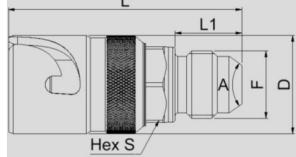




SLC05 Socket, DN05, Aluminium Alloy, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	Flange 31X20.5	N/A	Φ19	3.5	38.9	N/A	SLC05S-1AWF012N
	M14X1 Male Thread	75°	Φ20.5	14	49.6	19	SLC05S-1AMM142N

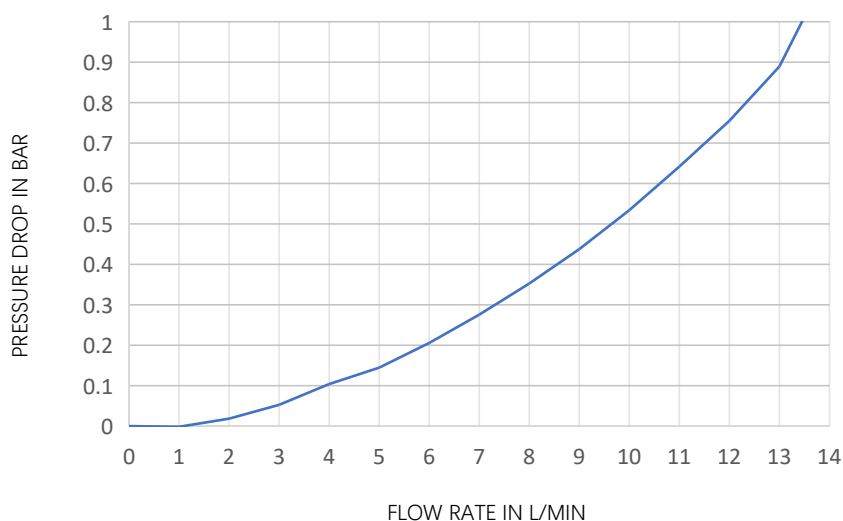
SLC05 Plug, DN05, Aluminium Alloy, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	Elbow M16X1 Male Thread	N/A	41.5	15	54.1	17	SLC05P-1AEM162N
	G1/4" Male Thread	N/A	Φ20.8	11.2	46.5	16	SLC05P-1AMG022N
	M14X1 Male Thread	70°	Φ20.8	14.1	49.4	16	SLC05P-1AMM142N

Flow chart

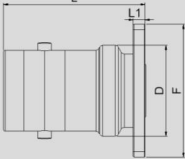
Condition:

- From plug to socket
- Liquid: water

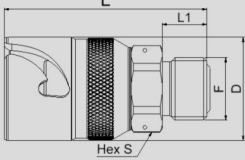




SLC08 Socket, DN08, Aluminium Alloy, EPDM Seal

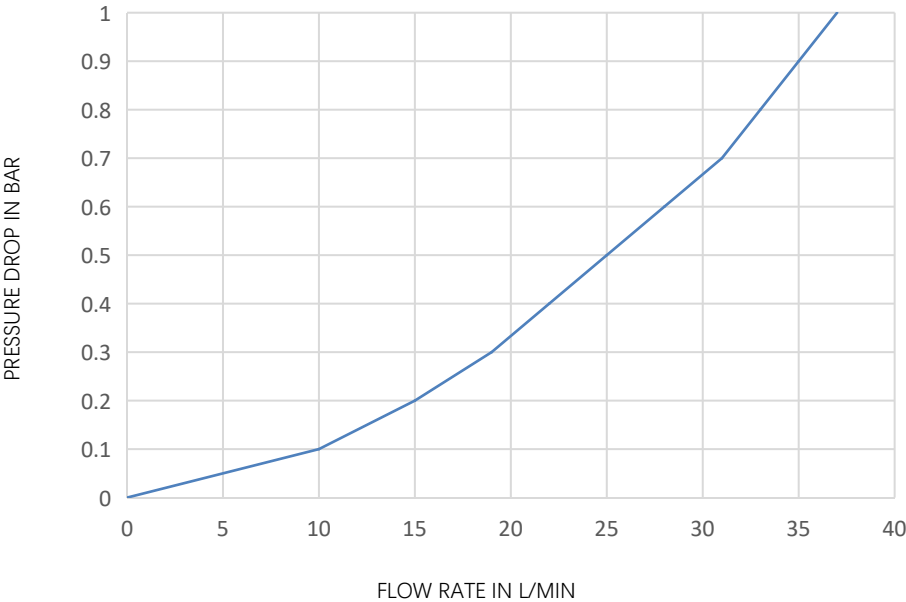
Dimensions	Connection F	A	D	L1	L	S	Part Number
	Flange 38X21.5	N/A	Φ26	3.5	41.4	N/A	SLC08S-1AWF012N

SLC08 Plug, DN08, Aluminium Alloy, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G3/8" Male Thread	N/A	Φ27.5	12	54.2	21	SLC08P-1AMG042N

Flow chart

- Condition:
- From plug to socket
 - Liquid: water



SFC Series Ball Coupling

Application	Data Center, HPC
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Technical Features	<ul style="list-style-type: none"> • Dual seal configuration - ensures reliable sealing and non-drip at low pressure • High intermatch consistency, symmetrical design • Connections are interlocked so that the valve can be opened only when the connection is complete and the coupling can be disconnected only when the valve is completely closed. • End connection swivels 360 degrees to prevent hose twisting • Multiple tail type options
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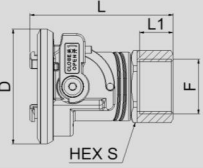
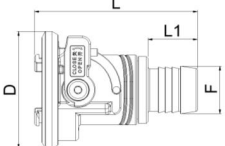
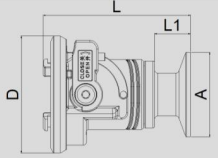


Description

Nominal diameter	DN20~40
Body material	304 Stainless Steel
Seal material	EPDM and FKM can be chosen
Working pressure	16bar
Burst pressure	64bar
Working temperature	-40℃ ~ +120℃
Fluid	Deionized water, purified water, glycol water, propanediol water, fluorinated liquid

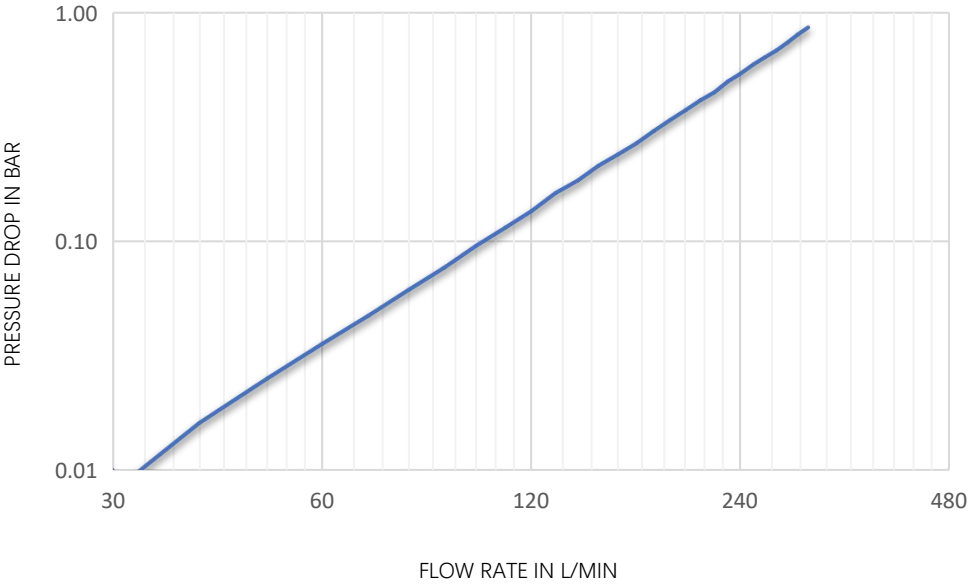


SFC20 Full Flow Ball Valve Coupling, DN20, Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G1" Female Thread	N/A	Φ69.9	22	85.6	40	SFC20-1SFG092N
	1" Hose Barb Push-Lok	N/A	Φ69.9	29	95.6	N/A	SFC20-1SWH252N
	1" Chuck	50.5	Φ69.9	21.5	88.1	N/A	SFC20-1SWK252N

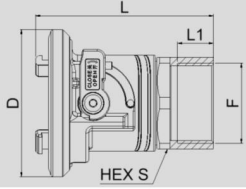
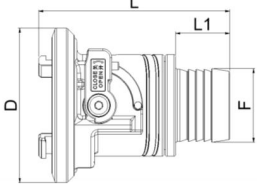
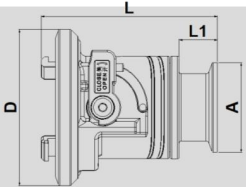
Flow chart

- Condition:
- From plug to socket
 - Liquid: water



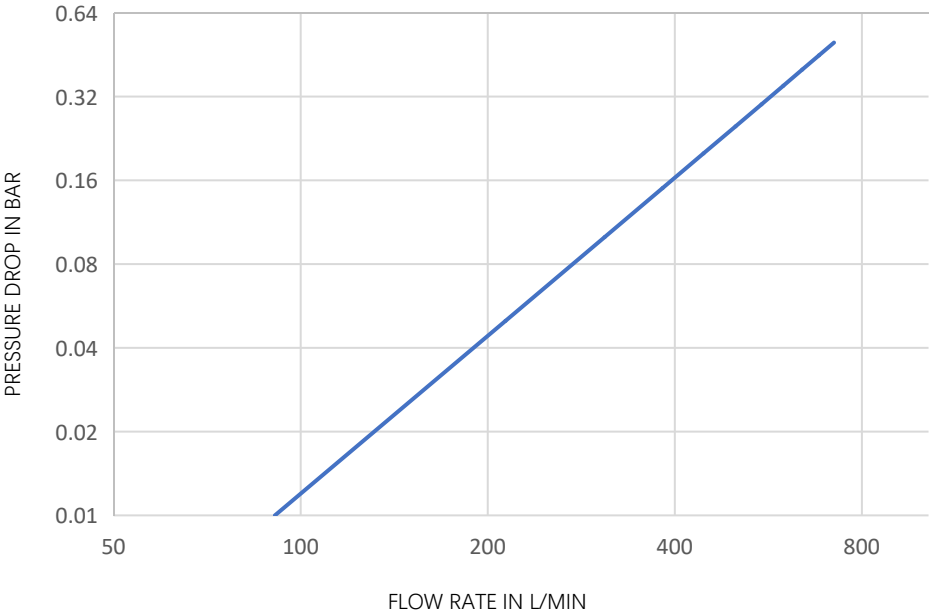


SFC32 Full Flow Ball Valve Coupling, DN32, Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G1-1/2" Female Thread	N/A	Φ88	21.4	106.7	55	SFC32-1SFG132N
	1-1/2" Hose Barb Push-Lok	N/A	Φ88	37.5	115.2	N/A	SFC32-1SWH402N
	1-1/2" Chuck	50.5	Φ88	21.5	99	N/A	SFC32-1SWK402N

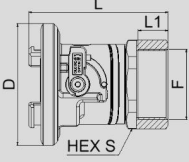
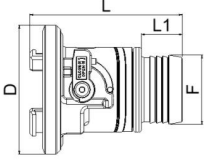
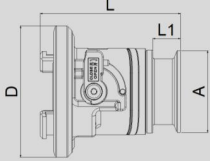
Flow chart

- Condition:
- From plug to socket
 - Liquid: water



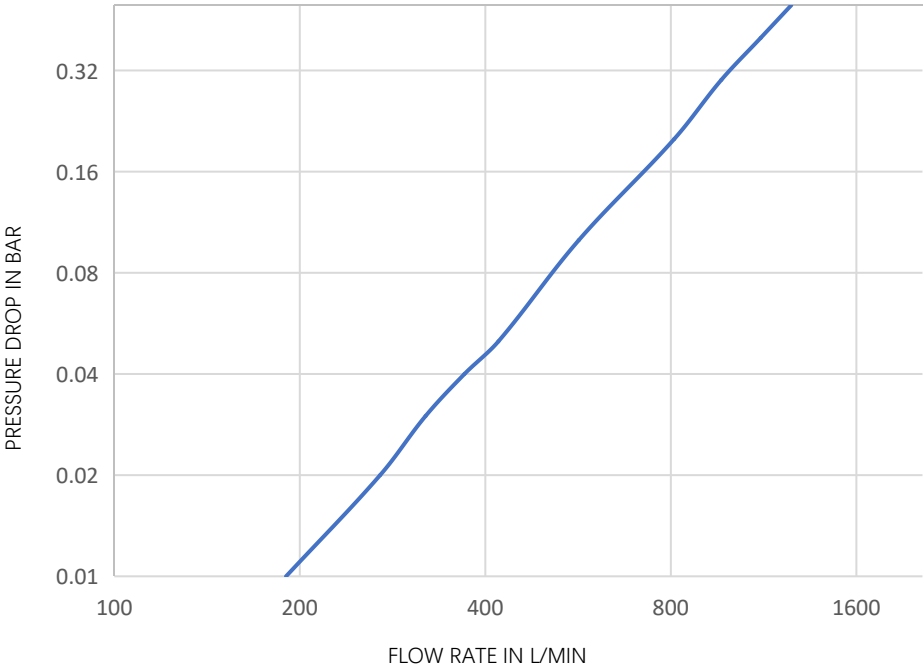


SFC40 Full Flow Ball Valve Coupling, DN40, Stainless Steel, EPDM Seal

Dimensions	Connection F	A	D	L1	L	S	Part Number
	G2" Female Thread	N/A	Φ103	25.7	119.4	70	SFC40-1SFG162N
	2" Hose Barb Push-Lok	N/A	Φ103	40	129	N/A	SFC40-1SWH502N
	2" Chuck	64	Φ103	21.5	109.9	N/A	SFC40-1SWK502N

Flow chart

- Condition:
- From plug to socket
 - Liquid: water



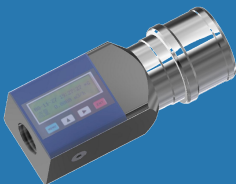
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Customized Products



Hose and Couplings Integration



Intelligent Couplings



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