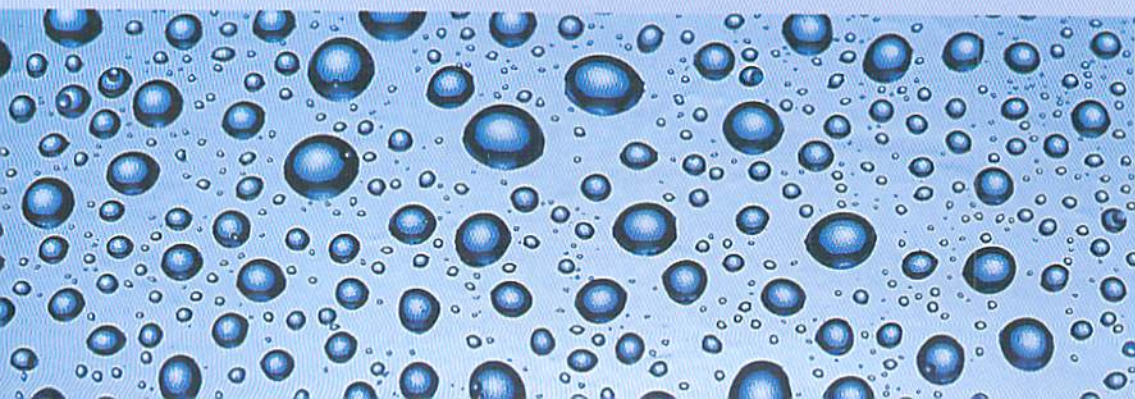
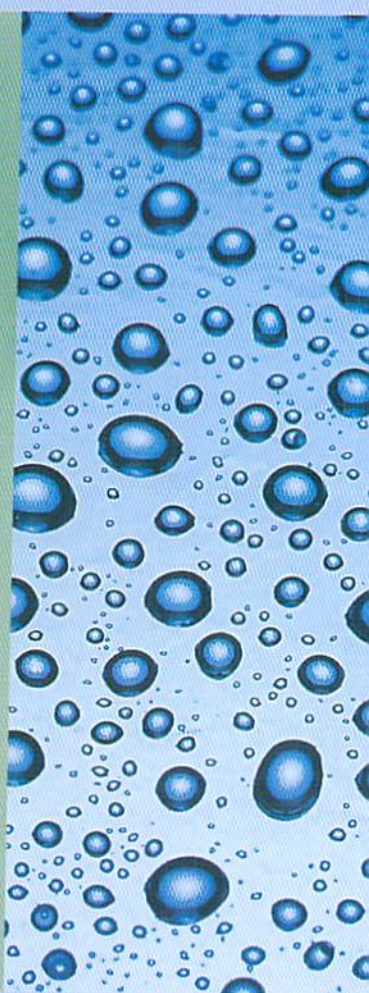


QUICK CONNECTIVE FLUID COUPLING



NEW-MACHINE CO., LTD. TOKYO-JAPAN



Catalog No. EC1-1

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Coupling / Pipe Clamp Selection Method

Check the following five items to select the right coupling for your application requirement.

(1) Fluid Type

Check the application fluid Air, Water, Oil etc.

Example :

Air Application - UNIC Series

Water Application - YSP, NSP Series

Select the coupling with body, packing, and O-ring material to suit the fluid type.

We provide different body materials and packing materials to suit various types of fluids.

(2) Fluid Pressure

Couplings, Pipe Clamps have different pressure resistance to suit fluid application requirements. Select a coupling with pressure resistance to suit fluid pressure.

Example : Pressure 20.6 MPa (210 kgf/cm²) SPH-050 Series

(3) Fluid Temperature

Fluid working temperature is important to select O-ring and packing material. There are different packing materials to suit different fluid working temperature.

Example : Nitrogen Butadiene Rubber is used for fluid working temperature from -20°C to + 80°C

(4) Size, Connection Type, Valve Structure and Body Material

- a. **Size:** Select suitable size 1/8"~2", (Diameter 3.18 mm to 31.75 mm)
- b. **Connection Type:** Male / Female thread, Hose nipple, Nut, Plug
- c. **Valve structure:** Select from different valve structures Two-way shut-off, One-way shut-off or Straight through types
- d. **Body Material:** Select body material brass, stainless steel to suit requirements

(5) Working Environment

Check the working environment such as temperature, dust, and vibrations etc. while choosing coupling for safe operation

Example : Avoid unnecessary vibrations, impacts and operating under dirty, dust environment.

Precaution

Wrong selection of the coupling could cause trouble to the operation system. Select the coupling by checking operating conditions, suitability to the system, operating conditions, temperatures, fluids etc.

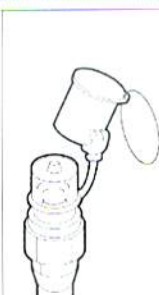
Manufacturer is not responsible for wrong selection of products.

Precaution Notes on Using Couplings

Read the precaution notes before operating the coupling

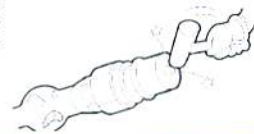
Precautions for Couplings usage :

- Don't connect/disconnect any external tools when pressure is applied. It may cause damage.
- Don't leave the socket and plug disconnected when pressure is applied.

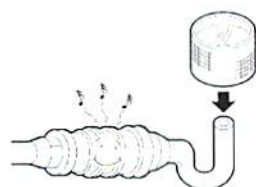


- Don't use couplings where metal dust, debris may enter causing damage to the sealing. This may cause damage or leakage.
- Couplings shipped with dust protection caps should never keep open. Install the dust cap when couplings are disconnected.

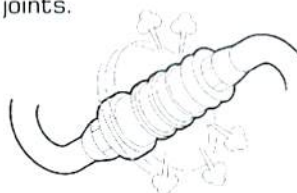
- Don't use tools like hammer, impact device causing extraordinary vibrations. This will reduce endurance. External pressure and impact can cause dangerous situation.
- Don't hit tip of the valve to exhaust the residual pressure. Valve structure may malfunction for Open / Close operation.



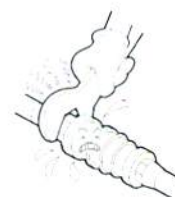
- Remove the foreign particles from the fluid flowing through the coupling using filter. Accumulation of foreign particles may cause malfunction of valve open/close operation.



- Never use the coupling instead of rotating devices like rotary joints and swivel joints.



- Don't tighten the nut fittings, screw type fittings in excess of the maximum torque. Excess torque application may cause damage. Therefore, apply proper torque for tightening.



Glossary

The following terms are used for coupling specifications mentioned this catalogue.

Body Material

The material used for the socket and plug body that form the fluid path. Internal valve mechanism components may have different materials.

Pressure

Working Pressure : Standard continuous allowable pressure when coupling is in use.

Pressure Resistance : Maximum allowable pressure for momentary time, that will not affect the performance of the coupling.

Packing Material

This shows the material used for O-ring and Packing seals used in the coupling.

Maximum Tightening Torque

This indicates the maximum torque value that can be applied when coupling fittings are being tightened.

Working Temperature Range

This indicates the minimum and maximum working temperatures for which coupling and packing materials can be used.

Size

This indicates pipe or hose diameter to be connected.

Pressure Loss

This shows loss of pressure (drop in pressure) when the fluid flows through the coupling.

Performance Characteristics & Control Limits

The figures described in performance characteristics and sketch dimensions are mean values for reference information.

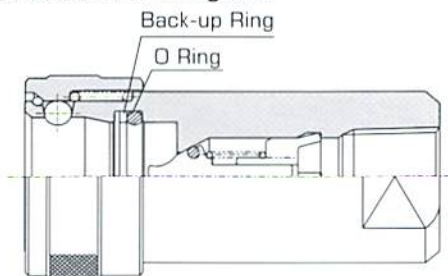
Interchangeability

New Machine couplings are designed considering global coupling standards and interchangeability with other manufacturers products.

Inspection & Replacement of O-Ring

Inspect the couplings periodically for leakage. O-ring or Back-up ring installed in the socket should be replaced with new one when fluid (Air, gas and Oil etc.) leakage is noticed due to worn or deterioration or being cut.

1. Remove the O-ring (or Back-up ring) from the socket using bent end tool (L-shaped hook, pin or needle) by stretching it and pulling towards your side. Wipe the groove with a clean cloth after removing the O-ring.
2. Insert the new O-ring (or Back-up ring) in to the socket. To install it, press one part of O-ring in the groove and press remaining part using bent end tool (R-shaped hook, pine etc.) High pressure application sockets have back-up ring along with an O-ring. Back-up ring should be installed in front of the O-ring, seeing from your side. Refer the sketch.



(High Pressure Application Socket)

3. After replacing the O-ring, apply silicon grease for gas fluid, or oil being used as fluid. Proper lubricant should be used to suit the fluid.

Note : We recommend to use our original spare parts (O-ring, Back-up ring and other replaceable parts) for better coupling performance.

Connecting and disconnecting of the coupling

◆ YSP-TYPE, NSP-TYPE, UNIC TYPE etc

Connecting : Insert the plug into the socket with sleeve kept pulled toward your side and sleeve will return to original position automatically. The sleeve is attached on the socket

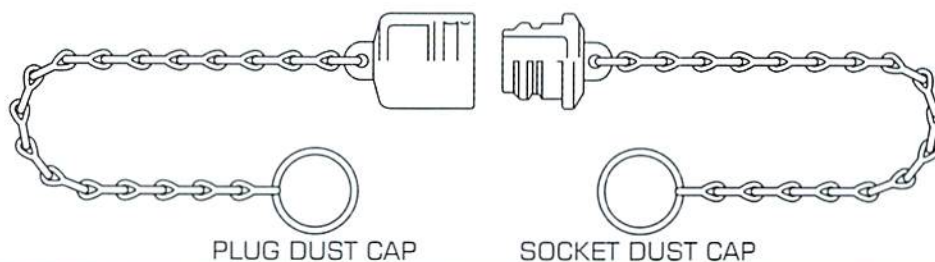
Disconnecting : Slide the sleeve and the plug and the socket will be disconnected automatically.

◆ MSP-TYPE, CA-OO TYPE, AP TYPE etc. (One-touch operation type)

Connecting : Only inserting makes the coupling connect

Disconnecting : Slide the sleeve and the plug and the socket will be disconnected automatically.

Safekeeping of the coupling



Fastning Torque

1. Body Material : Steel, Stainless Steel

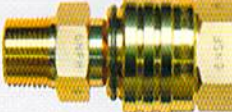
SIZE	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Torque Range Nm.(kgf.cm)	9 (92)	14 (143)	22 (224)	60 (612)	90 (918)	120 (1224)	240 (2448)	280 (2856)	500 (5100)

2. Body Material : Brass (BSBM)

SIZE	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Torque Range Nm.(kgf.cm)	5 (51)	9 (92)	12 (122)	30 (306)	50 (510)	65 (663)	150 (1530)	180 (1836)	260 (2652)

New Machine Couplings: Global recognition, High quality Standards

Quick Connective Fluid Couplings

Model	Coupling View	Pipe Size Dia. mm	Applicable Pressure MPa (Kg/cm ²)		Features	Valve Construction	Page
			Working	Resistance			
High Pressure Auto Coupling SPH050 Series		1/4"~2"	20.6 (210)	30.9 (315)	- Designed for pressure applications up to 20.6 Mpa - Proven reliable operation performance and working safety - Applications in hydraulic/ industrial equipments, machines, hydraulic press rolling machines, Plant hydraulic circuits, aircraft, agriculture machinery etc.	 ● VALVE TWO-WAY SHUT-OFF	7
High Pressure Auto Coupling SPH070 Series		1/4"~1"	20.6 (210)	30.9 (315)	- Designed for pressure applications up to 20.6 Mpa - Proven reliable operation performance and working safety - Applications in hydraulic/ industrial equipments, machines, hydraulic press rolling machines, Plant hydraulic circuits, aircraft, agriculture machinery etc.	 ● VALVE TWO-WAY SHUT-OFF	9
High Pressure No Spill Coupling N350 Series		3/8"~1"	34.3 (350)	51.5 (525)	- Airless valve mechanism to minimize air mixing while connecting socket and plug - Minimum pressure loss - Applications in hydraulic, industrial equipments, snow plough, Crain vehicles, hydraulic press rolling machines, Plant hydraulic circuits etc.	 ● VALVE TWO-WAY SHUT-OFF	11
High Pressure High Lock Coupling KSP700 Series		3/8"	68.6 (700)	98.0 (1000)	- Unique screw lock design for high endurance to vibrations and impact when connected - Metal touch type valve design for excellent durability - Applications in hydraulic lifting, jack, puncher, pipe bender, hydraulic very high-pressure requirements etc.	 ● VALVE TWO-WAY SHUT-OFF	13
Auto Coupling YSP Series		1/8"~2"	Brass 4.9 (50) Stainless Steel 7.4 (75)	Brass 7.4 (75) Stainless Steel 9.8 (100)	- Insertion of plug automatically opens the valve to allow fluid flow - Excellent airtight specification (1 x 10⁻³ mm Hg/sec) - Applications in pneumatic piping, plant piping, Industrial machines, equipments, Heaters etc.	 ● VALVE TWO-WAY SHUT-OFF	15
Charge Coupling SPR Series		1/8"~1/2"	Brass 4.9 (50) Stainless Steel 7.4 (75)	Brass 7.4 (75) Stainless Steel 9.8 (100)	- Insertion of plug automatically opens the valve to allow fluid flow - Excellent airtight specification (1 x 10⁻³ mm Hg/sec) - Applications in pneumatic piping, plant piping, Industrial machines, equipments, Replenishing new refrigerant, Gas, Vacuum, Drinks, Water etc.	 ● VALVE TWO-WAY SHUT-OFF	17
Valve-less Coupling NSP Series		1/8"~2"	Brass 4.9 (50) Stainless Steel 7.8 (80)	Brass 7.4 (75) Stainless Steel 9.8 (100)	- Two way free coupling. Both socket and plug have valve less design construction. - Minimum pressure loss in high viscosity fluids - Applications in mould cooling device, Gas piping, Car washing machines, Hydraulic devices, Chemical plants, Medical equipments etc.	 ● VALVE THROUGH	19
UNIC Coupling UNIC Series		1/4"~1"	0.98 (10)	1.47 (15)	- Highly reliable general purpose air connection applications. Efficient operations even at low pressures - Fluid flows from socket to plug - Safe and reliable applications in Pneumatic circuit, Oil, Oxygen, Nitrogen etc. Connections	 ● VALVE 1-WAY SHUT-OFF	21
Super Tube Coupling (With Nut) UNIC300 Series		Hose O.D. ø 8 mm ø 10 mm ø 12 mm	0.98 (10)	1.47 (15)	- For lightweight polyurethane hose connection - No protruding of hose clamp bolts. The design doesn't let couplings get caught while hose is moved. Thus avoids hose damage. - Applications in general Pneumatic circuit, Oil, Oxygen, Nitrogen, water etc. Connections	 ● VALVE 1-WAY SHUT-OFF	23

Customer Satisfaction through Superior Quality, Economical Prices, Long-life Reliability,
Ergonomic Design, Numerous Applications, Custom Designed Coupling Solutions
Coupling Series

Model	Coupling View	Pipe Size Dia. mm	Applicable Pressure MPa (Kg/cm ²)		Features	Valve Construction	Page
			Working	Resistance			
Super Joint S200 Series		Hose O.D. ø 8 mm ø 10 mm 1/8" ~ 1/4"	0.98 (10)	1.47 (15)	- Lightweight, One-touch connection. - No protruding of hose clamp bolts. The design doesn't let couplings get caught while hose is moved. Thus avoids hose damage. - Suitable for applications in air compressor piping, pneumatic circuit, control panel inside air piping, painting device etc.	 1-WAY SHUT-OFF	25
Micro Super Mini Coupling CA00 Series		Hose ø 5 x 3 mm ø 6 x 4 mm M5 x P0.8, 1/8"	0.98 (10)	1.47 (15)	- Simple one touch push operation - Super mini size automatic joints. - Applications to meet various requirements in modern scientific equipments	 1-WAY SHUT-OFF	27
Quick Tube Connector CAP Series		Hose O.D. ø 4 mm ø 6 mm ø 8 mm	0.98 (10)	1.47 (15)	- Designed for tube connections - Double airtight mechanism. No leakages while making connections! - Super compact, lightweight, one touch push-in tube connector - Applications in various air and vacuum unit piping	 1-WAY SHUT-OFF	29
New Auto Joint AP Series		1/8" ~ 3/8"	0.98 (10)	1.47 (15)	- Lightweight, compact and high flow capacity - Double safety airtight construction with three valves - Leakage proof applications for connections of air, water, oil, gas etc. in Semiconductor equipments, Scientific equipments, Instrumentation devices, Pneumatic and Hydraulic circuits etc.	 1-WAY SHUT-OFF TWO-WAY SHUT-OFF THROUGH	31
Mould Coupling MSP Series		For Hose 1/8" ~ 3/8"	0.98 (10)	1.47 (15)	- Designed for applications in mould cooling devices - Quick replacement of coolant hose to mould and die - One touch operation, Quick coolant hose connection	 1-WAY SHUT-OFF	33
New Coupling SAP Series		Hose ø 5.8, ø8.2, ø10.3 Thread M16, P1.5	0.98 (10)	1.47 (15)	- For pipe connections to Welding, Gas cutting, Plasma cutting machines - One touch connection with double safety lock construction - Ideal applications in fabrication, welding shops and equipments	 1-WAY SHUT-OFF	35
Quick Disconnecter N205 Series		In Out	0.39 (4)	0.98 (10)	- Designed for applications in carbonic acid gas charging to syrup tank of drink fluid and supplying syrup in to dispenser - Very low pressure loss and minimum flow drift - Quick and easy connection of pin lock joint - Approved to food hygienic regulations standards and Taste test.	 TWO-WAY SHUT-OFF	37
Quick Disconnecter BL Series		In Out	0.39 (4)	0.98 (10)	- Designed for applications in carbonic acid gas charging to syrup tank of drink fluid and supplying syrup in to dispenser - Very low pressure loss and minimum flow drift - Quick and easy connection of ball lock joint - Approved to food hygienic regulations standards and Taste test.	 TWO-WAY SHUT-OFF	39

High Pressure Auto Coupler

SPH050 Series



Hydraulic Applications,
Pressures up to 20.6 MPa (210 Kgf/cm²)
(Two-way Shut-off Valve)

Reliable Performance in Hydraulic Applications
Designed for Pressure Applications up to 20.6 MPa
Two-Way Shut-Off Operation



Semi - Standard

Features

- SPH series is designed, tested and used worldwide for hydraulic oil piping connection applications in general purpose hydraulic equipments, hydraulic press rolling machines, industrial equipments and machines, Plant hydraulic circuits, aircraft, agriculture machinery etc.
- Safe, proven and anti-impact resistance design successfully tested for 1,000,000 impulses
- High product durability: Successfully tested for 250,000 Open/Close operations

In order to provide consistent good quality and reliability products, New Machine is always conscious about accurate design and rigorous product testing.

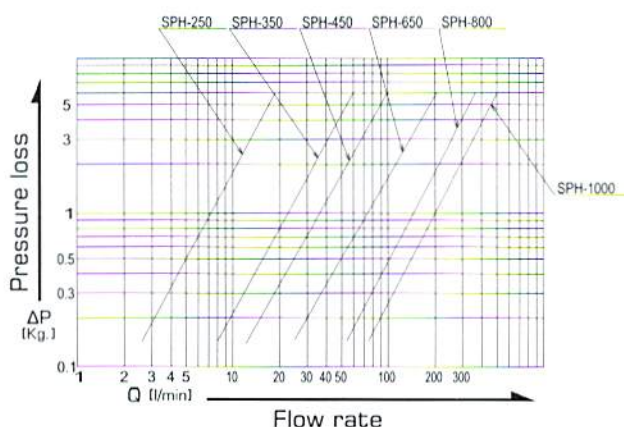
Specifications

Body Material	Special Steel (Zinc Plated)			
Size	1/4", 3/8", 1/2", 3/4", 1"	1 1/4", 1 1/2"	2"	
Working Pressure MPa (kgf/cm²)	20.6 (210)	17.6 (180)	13.7 (140)	
Pressure Resistance MPa (kgf/cm²)	30.9 (315)	26.5 (270)	20.6 (210)	
Packing Material	Material	Symbol	Working Temperature	Remarks
	Fluorine rubber	VT-20	-15°C ~ +180°C	Standard Material

Minimum Cross-Sectional Area (mm²)

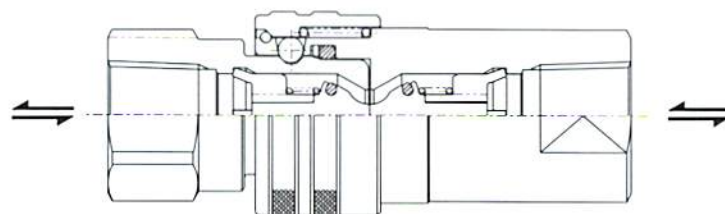
Model	250	350	450	650	800	1000	1200	1600
Area	24.5	42.8	77.4	146	235	605	815	1100

Characteristics



Measuring conditions: Standard Hydraulic Fluid,
Temperature: 30°C +/- 5°C,
Specific gravity: 0.866 x 10 Kg/m³

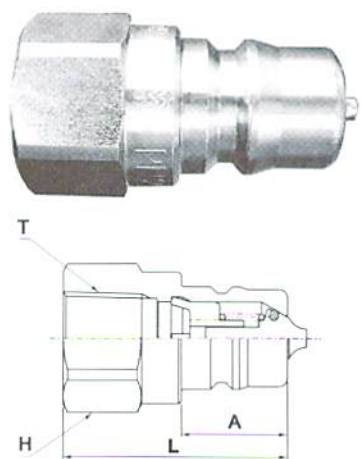
Fluid Flow Direction



Fluid flows in either direction from socket or plug

Product Models & Dimensions

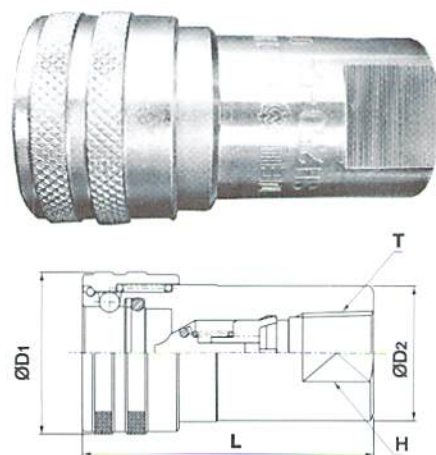
Plug



Model	L (mm)	A (mm)	T	H (mm)	W (g)
PH - 250	35.7	17.9	Rc 1/4	HEX 19	43
PH - 350	40	19	Rc 3/8	HEX 24	73
PH - 450	45.2	23	Rc 1/2	HEX 27	100
PH - 650	53	27.5	Rc 3/4	HEX 35	210
PH - 800	68	35	Rc 1	HEX 41	345
PH - 1000	78	48	Rc 1.1/4	HEX 50	571
PH - 1200	78	52	Rc 1.1/2	HEX 58	781
PH - 1600	101	72	Rc 2	HEX 71	1591

Order Size	Model	Working Pressure MPa (kgf/cm ²)	Pressure Resistance MPa (kgf/cm ²)	Total length (when connected) L (mm)
1/4	SPH - 250	20.6 (210)	30.9 (315)	69.2
3/8	SPH - 350			78.4
1/2	SPH - 450			89.1
3/4	SPH - 650			95.1
1	SPH - 800			119.3

Socket



Model	L (mm)	D1 (mm)	D2 (mm)	T	H (mm)	W (g)
SH - 250	53	29	23	Rc 1/4	HEX 19	142
SH - 350	57.7	32	26.5	Rc 3/8	HEX 24	192
SH - 450	67.5	40	31	Rc 1/2	HEX 27	314
SH - 650	80.2	48	39	Rc 3/4	HEX 35	536
SH - 800	101.6	55	47.4	Rc 1	HEX 41	912
SH - 1000	121	67	56.5	Rc 1.1/4	HEX 50	1503
SH - 1200	125	80	72	Rc 1.1/2	HEX 58	2015
SH - 1600	166	118	90	Rc 2	HEX 71	4231

Order Size	Model	Working Pressure MPa (kgf/cm ²)	Pressure Resistance MPa (kgf/cm ²)
1 1/4	SPH - 1000	17.6	26.5
1 1/2	SPH - 1200	(180)	(270)
2	SPH - 1600	13.7 (140)	20.6 (210)

Ordering Information

SH-250- VT-20

① ② ③

① Type

S	Socket
P	Plug

② Size

250	1/4
350	3/8
450	1/2
650	3/4
800	1
1000	1 1/4
1200	1 1/2
1600	2

③ Packing Material

VT-20	Fluorine rubber
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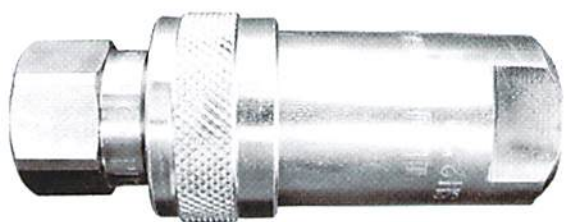
High Pressure Auto Coupler

SPH070 Series



Hydraulic Applications,
Pressures up to 20.6 MPa (210 kgf/cm²)
(Two-way Shut-off Valve)

Reliable Performance in Hydraulic Applications
Designed for Pressure Applications up to 20.6 MPa
Two-Way Shut-Off Operation



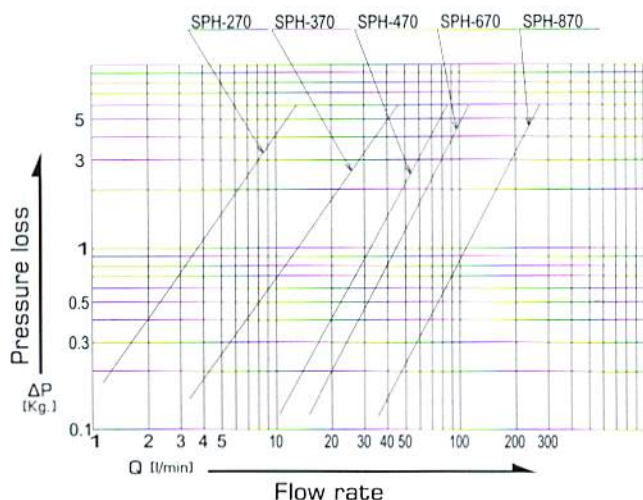
Semi - Standard

Features

- SPH series is designed, tested and used worldwide for hydraulic oil piping connection applications in general purpose hydraulic equipments, hydraulic press rolling machines, industrial equipments and machines, Plant hydraulic circuits, aircraft, agriculture machinery etc.
- Safe, proven and anti-impact resistance design successfully tested for 1,000,000 impulses
- High product durability: Successfully tested for 250,000 Open/Close operations

In order to provide consistent good quality and reliability products, New Machine is always conscious about accurate design and rigorous product testing.

Characteristics



Measuring conditions: Standard Hydraulic Fluid,
Temperature: 30°C +/- 5°C,
Specific gravity: 0.866 x 10³ Kg/m³

Specifications

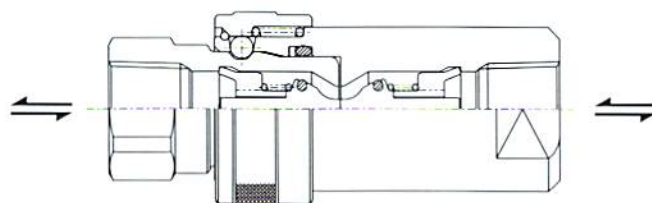
Body Material	Special Steel (Zinc Plated)
Size	1/4", 3/8", 1/2", 3/4", 1"
Working Pressure MPa (kgf/cm ²)	20.6 (210)
Pressure Resistance MPa (kgf/cm ²)	30.9 (315)

Packing Material	Material	Symbol	Working Temperature	Remarks
	Fluorine rubber	VT-20	-15°C ~ +180°C	Standard Material

Minimum Cross-Sectional Area (mm²)

Model	270	370	470	670	870
Area	21	37	77	146	235

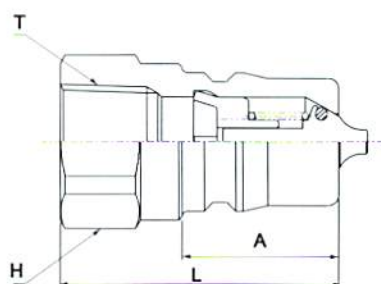
Fluid Flow Direction



Fluid flows in either direction from socket or plug

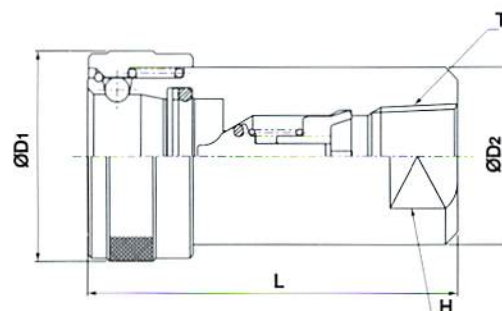
Product Models & Dimensions

Plug

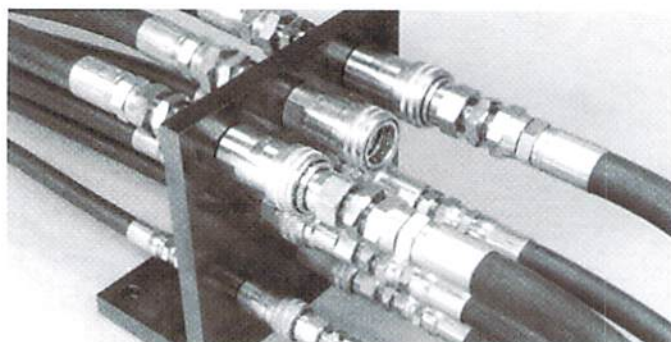


Model	L (mm)	A (mm)	T	H (mm)	W (g)
PH - 270	34.5	17.5	Rc 1/4	HEX 19	42
PH - 370	40	22.5	Rc 3/8	HEX 23	67
PH - 470	44	27.5	Rc 1/2	HEX 24	126
PH - 670	50	27.5	Rc 3/4	HEX 32	144
PH - 870	61	36	Rc 1	HEX 41	319

Socket



Model	L (mm)	D1 (mm)	D2 (mm)	T	H (mm)	W (g)
SH - 270	51.6	28	24	Rc 1/4	HEX 19	141
SH - 370	60	34	28.6	Rc 3/8	HEX 23	226
SH - 470	72.2	43	38.5	Rc 1/2	HEX 35	482
SH - 670	72.2	43	38.5	Rc 3/4	HEX 35	457
SH - 870	93.2	58	52.2	Rc 1	HEX 46	1040



Order Size	Model	Working Pressure MPa (kgf/cm ²)	Pressure Resistance MPa (kgf/cm ²)	Total length (when connected) L (mm)
1/4	SPH - 270	20.6 (210)	30.9 (315)	69.2
3/8	SPH - 370			78.4
1/2	SPH - 470			89.1
3/4	SPH - 670			95.1
1	SPH - 870			119.3

Ordering Information

SH-270 - VT20

① ② ③

① Type

S	Socket
P	Plug

② Size

270	1/4
370	3/8
470	1/2
670	3/4
870	1

③ Packing Material

VT-20	Fluorine rubber
-------	-----------------

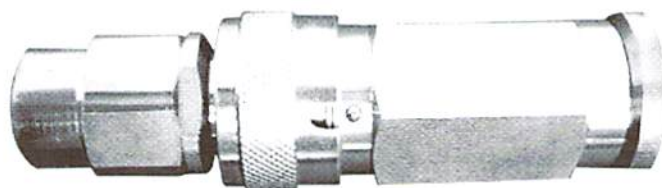
No Spill Coupling

N350 Series



Hydraulic Applications,
Pressures up to 34.3 MPa (350 kgf/cm²)
(Two-way Shut-off Valve)

Valve mechanism designed to reduce air admixing



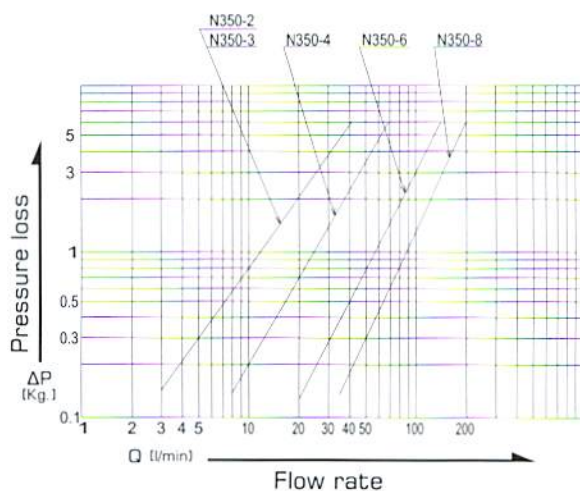
Features

- N350 coupling employs "Airless valve mechanism" to minimize air mixing while connecting socket and plug.
- Automatic shut-off (Open/Close) valve ensures operation safety.
- One touch connection operation.
- Automatic shut-off valves are incorporated in both socket and plug (Built-in design concept). The design construction prevents fluid leakage on disconnection and allows minimum pressure losses

Specifications

Body Material	Special Steel (Chromium Molybdenum Steel) Zinc plated			
Size	1/4", 3/8", 1/2", 3/4", 1"			
Working Pressure MPa (kgf/cm ²)	34.3 (350)			
Pressure Resistance MPa (kgf/cm ²)	51.5 (525)			
Packing Material	Material	Symbol	Working Temperature	Remarks
	Nitrile butadiene rubber	No mark	-20°C ~ +80°C	Standard material

Characteristics

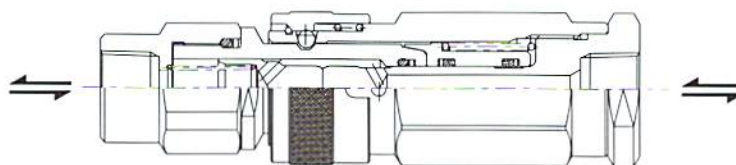


Measuring conditions: Standard Hydraulic Fluid,
Temperature: 30°C +/- 5°C,
Specific gravity: 0.866 x 10³ Kg/m³

Minimum Cross-Sectional Area (mm²)

Model	N350-2SP N350-3SP	N350-4SP	N350-6SP	N350-8SP
Area	38	73	149	226

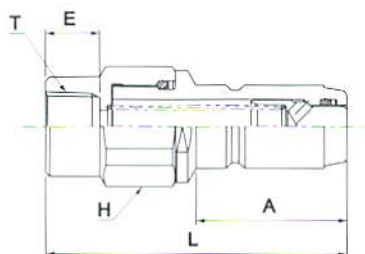
Fluid Flow Direction



Fluid flows in either direction from socket or plug

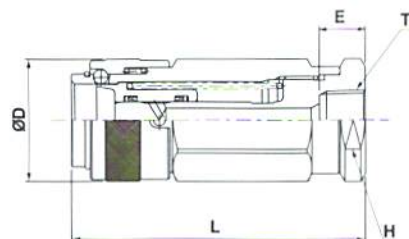
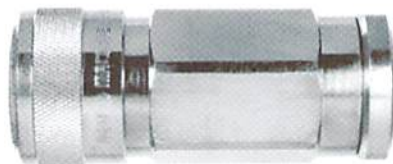
Product Models & Dimensions

Plug



Model	L (mm)	A (mm)	E (mm)	T	H (mm)	(W) (g)
N350-2P	72	36	13	Rc 1/4	HEX 27	168
N350-3P	72	36	13	Rc 3/8	HEX 27	176
N350-4P	82.5	40.5	18	Rc 1/2	HEX 32	271
N350-6P	90	44.5	18	Rc 3/4	HEX 41	483
N350-8P	119	57	22	Rc 1	HEX 50	1038

Socket



Model	L (mm)	D (mm)	E (mm)	T	H (mm)	(W) (g)
N350-2S	82	34	13	Rc 1/4	HEX 30	350
N350-3S	82	34	13	Rc 3/8	HEX 30	369
N350-4S	93.5	41	16	Rc 1/2	HEX 36	559
N350-6S	105.5	49	18	Rc 3/4	HEX 46	986
N350-8S	129	63	22	Rc 1	HEX 55	1753



Order Size	Model	Working Pressure MPa (kgf/cm ²)	Pressure Resistance MPa (kgf/cm ²)	Total length (when connected) L (mm)
RC 1/4	N350-2SP	34.3 (350)	51.5 (525)	69.2
RC 3/8	N350-3SP			78.4
RC 1/2	N350-4SP			89.1
RC 3/4	N350-6SP			95.1
RC 1	N350-8SP			119.3

Ordering Information

N350-3P -

① ② ③

① Size

2	1/4
3	3/8
4	1/2
6	3/4
8	1

② Type

S	Socket
P	Plug

③ Packing Material

No Mark	Nitrile butadiene rubber
---------	--------------------------

High Lock Coupling

KSP700 Series



Hydraulic Applications,
Pressures up to 68.6 MPa (700 Kgf/cm²)
(Two-way Shut-off Valve)

High Performance, Hydraulic High Pressure Coupling

Pressure Resistance 98 MPa (1000 Kgf/cm²)

Unique screw lock design for high endurance to vibrations and impact when connected



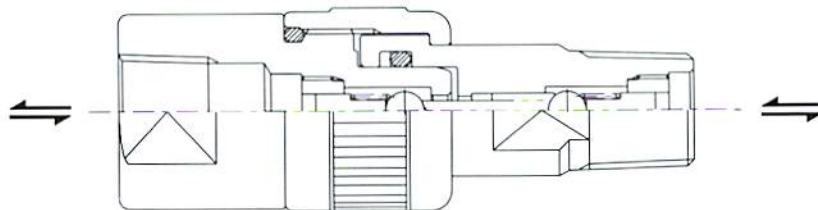
Features

- Metal touch valve design for excellent durability.
- Special designed Screw-lock design ensures safe and secure operation against vibrations and impact load while working.

Specifications

Body Material	Special Steel (Chromium Molybdenum Steel)			
Size	3/8"			
Working Pressure MPa (kgf/cm ²)	68.6 (700)			
Pressure Resistance MPa (kgf/cm ²)	98 (1000)			
Packing Material	Material	Symbol	Working Temperature	Remarks
	Nitrile butadiene rubber	No mark	-20°C ~ +80°C	Standard material
	Fluorine rubber	VT-20	-15°C ~ +180°C	Semi-standard Material

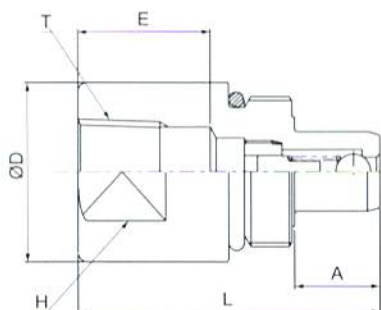
Fluid Flow Direction



Fluid flows in either direction from socket or plug

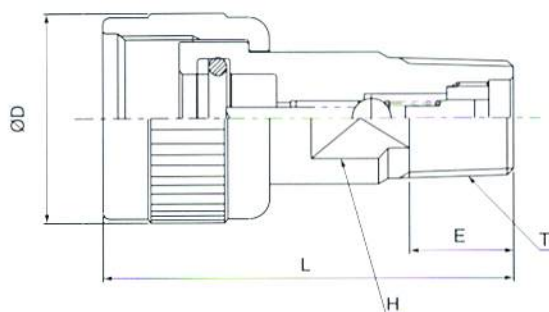
Product Models & Dimensions

Plug



Model	L (mm)	A (mm)	D (mm)	E (mm)	T	H (mm)	W (g)
KP-700	48	13.5	28.5	13	Rc 3/8	Face width 24	122

Socket



Model	L (mm)	D (mm)	E (mm)	T	H (mm)	W (g)
KS-700	59	30	15	Rc 3/8	Face width 15	127

Ordering Information

KS - 700 -

①

②

① Type

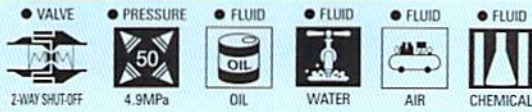
S	Socket
P	Plug

② Packing Material

No Mark	Nitrile butadiene rubber
VT-20	Fluorine rubber

Auto Coupling

YSP Series



Medium and Low Pressure Applications
(Two-way Shut-off Valve)

Automatic Shut-Off Valves at Both Socket and Plug!



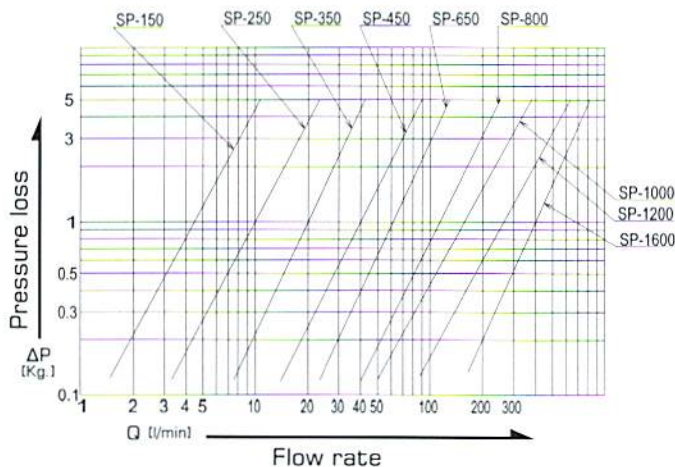
Features

- Excellent durability at any environment. Rigid construction design allows smooth working even at vibrations without any leakages.
- Automatic shut-off (open/close) valve mechanisms are used in both socket and plug. Insertion of plug automatically opens the valve to allow fluid flow.
- Several types of body and packing materials are available to suit a variety of fluids and application requirements.
- Designed to SAE standards conformity.
- Excellent durability and operation life. Tested for 100,000 Valve Open/ Close operations.

Specifications

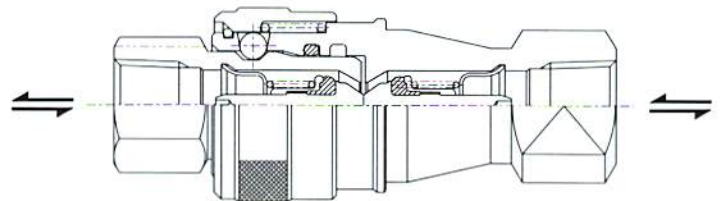
Body Material	Brass (BSBM)				Stainless Steel SUS 304			
Size	1/8", 1/4", 3/8"	1/2", 3/4", 1"	1 1/4", 1 1/2"	2"	1/8", 1/4", 3/8"	1/2", 3/4", 1"	1 1/4", 1 1/2"	2"
Working Pressure MPa (kgf/cm ²)	4.9 (50)	2.9 (30)	1.9 (20)	1.4 (15)	7.3 (75)	4.4 (45)	2.9 (30)	1.9 (20)
Pressure Resistance MPa (kgf/cm ²)	7.3 (75)	4.4 (45)	2.9 (30)	2.2 (23)	9.8 (100)	6.3 (65)	4.4 (45)	2.9 (30)
Packing material, Working temperature range	Material	Symbol	Working Temperature		Remarks			
	Nitrile butadiene rubber	No mark	-20°C ~ +80°C		Standard material			
	Fluorine rubber	VT-20	-15°C ~ +180°C		Standard material			
	Ethylene Propylene rubber	EPT	-10°C ~ +150°C		Semi - Std material			

Characteristics



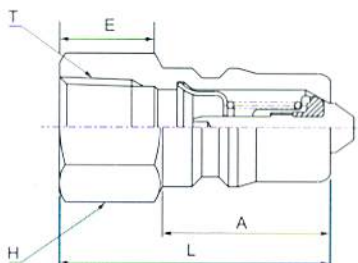
Fluid Flow Direction

Fluid flows in either direction from socket or plug



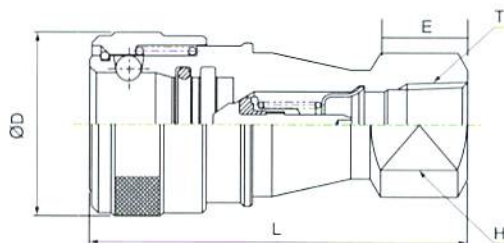
Product Models & Dimensions

Plug



Model	L (mm)	A (mm)	E (mm)	T	H (mm)	Weight (g)	
						SUS	BSBM
P-150	29	19	11	Rc 1/8	HEX. 14	18	19
P-250	35.5	22	12.4	Rc 1/4	HEX. 17	33	36
P-350	39.9	25.2	13	Rc 3/8	HEX. 21	59	63
P-450	44	28	15	Rc 1/2	HEX. 29	115	118
P-650	52	36.5	19	Rc 3/4	HEX. 35	191	199
P-800	62	40	20	Rc 1	HEX. 41	334	349
P-1000	70	45	22	Rc1¼	HEX. 54	621	650
P-1200	75	49.5	24	Rc1½	HEX. 65	934	987
P-1600	80	52	24	Rc 2	HEX. 77	1594	1677

Socket



Model	L (mm)	D (mm)	E (mm)	T	H (mm)	Weight (g)	
						SUS	BSBM
S-150	48	24	11	Rc 1/8	Face width 14	79	85
S-250	58	28	12.4	Rc 1/4	Face width 17	124	131
S-350	65	35	13	Rc 3/8	Face width 21	194	203
S-450	71.7	45	15	Rc 1/2	Face width 29	403	425
S-650	88	55	19	Rc 3/4	Face width 35	668	698
S-800	102	64	20	Rc 1	Face width 41	958	1006
S-1000	115	77.5	22	Rc 1¼	Face width 54	1616	1723
S-1200	124.3	87.5	24	Rc1½	Face width 63	2381	2534
S-1600	132	109	24	Rc 2	Face width 77	3787	3981

Ordering Information

S-250-BSBM -

① ② ③ ④

① Type

S	Socket
P	Plug

② Size

150	1/8
250	1/4
350	3/8
450	1/2
650	3/4
800	1
1000	1¼
1200	1½
1600	2

③ Body Material

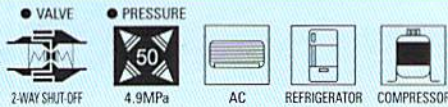
BSBM	Brass
SUS	Stainless Steel (SUS304)

④ Packing Material

No Mark	Nitrite butadiene rubber
VT-20	Fluorine rubber
EPT	Ethylene Propylene rubber

Charge Coupling

SPR Series



For Refrigerant Gas, Helium
Excellent for Vacuum Applications
(High performance airtight coupling)
(Two-way Shut-off Valve)

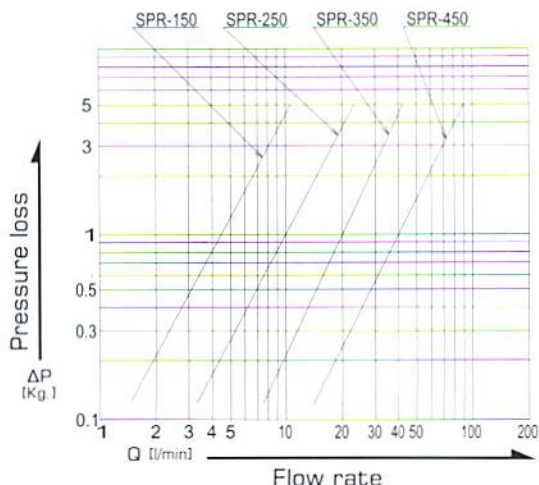
Automatic shut-off valves in both socket & plug
High precision mechanism to endure severe operating conditions in vacuum suction applications.
Designed to withstand a vacuum of 1.3×10^{-1} Pa



Features

- Special type of packing materials are used to suit applications in assembly lines, refrigerant charging lines and air conditioner final testing lines
- Designed for applications in vacuum suction and refrigerant gas charging. Automatic shut-off (open/close) valve mechanisms are used in both socket and plug. Our designed high precision mechanism endures severe operating conditions in vacuum suction applications.
- Design allows tight sealing of socket and plug when disconnected. The SPR series couplings withstand a vacuum of 1.3×10^{-1} Pa (1×10^{-3} mm Hg). This enables replenishing of several refrigerants (R-134a, R-410a, R-407c) and freezing application liquids
- The SPR series couplings can be connected to YSP Series couplings and LCG type charging guns.
- SPR series couplings are approved to international JRA regulations for air conditioner and other refrigerant gases applications and manufacturing
- SPR series conform to SAE standards.

Characteristics



Specifications

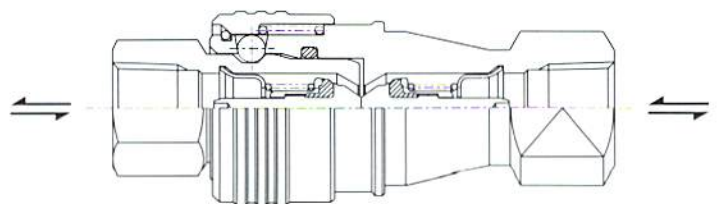
Body Material	Brass (BSBM)		Stainless Steel		
	1/8", 1/4", 3/8"	1/2"	1/8", 1/4", 3/8"	1/2"	
Size					
Working Pressure MPa (kgf/cm ²)	4.9 (50)	2.9 (30)	7.3 (75)	4.4 (45)	
Pressure Resistance MPa (kgf/cm ²)	7.3 (75)	4.4 (45)	9.8 (100)	6.3 (65)	
Packing material,	Packing	Symbol	Working Temperature	Fluid	Remarks
	HNBR*	HNBR	-20°C ~ +120°C	R-134a	Standard material
Working temperature range	Neoprene	NR-28	-20°C ~ +80°C	R-22, Helium, R-407c, R-410a	

*HNBR - Hydrogen added nitrile butadiene rubber

Minimum Cross-sectional Area (mm²)

Model	SPR-250	SPR-350	SPR-450
Min. Cross-sectional Area	25	45	90

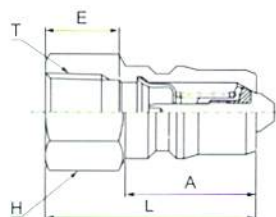
Fluid Flow Direction



Fluid flows in either direction from socket or plug

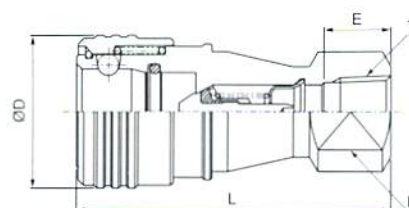
Product Models & Dimensions

Plug



Model	L (mm)	A (mm)	E (mm)	T	H (mm)	Weight (g)	
						SUS	BSBM
PR-150	29	19	11	Rc 1/8	HEX. 14	18	19
PR-250	35.5	22	12.4	Rc 1/4	HEX. 17	33	36
PR-350	39.9	25.2	13	Rc 3/8	HEX. 21	59	63
PR-450	44	28	15	Rc 1/2	HEX. 29	115	118

Socket



Model	L (mm)	D (mm)	E (mm)	T	H (mm)	Weight (g)	
						SUS	BSBM
SR-150	48	24	11	Rc 1/8	Face width 14	79	85
SR-250	58	28	12.4	Rc 1/4	Face width 17	124	131
SR-350	65	35	13	Rc 3/8	Face width 21	194	203
SR-450	71.7	45	15	Rc 1/2	Face width 29	403	425

Refrigerant Packing Materials

Refrigerant	R134a	R22	R410a	R407c
Packing material	Hydrogen added nitrite butadiene rubber	Neoprene		
Symbol	HNBR	NR-28		
Features	- Efficient applications in HFC134a (R134a). - Conform to JRA2009 standards - Widely used by several automobile companies for Car air conditioner applications	Excellent durability and resistance to Freon gas (R12, R22)	Excellent durability and resistance to Freon gas (R410a, R407c)	
Applications	- Car air conditioner production line - Refrigeration production line	Building air conditioners Production Line	Building air conditioners Production Line	Package air conditioners Production Line

Ordering Information

SR-250-BSBM -

① ② ③ ④

① Type

S	Socket
P	Plug

② Size

150	1/8
250	1/4
350	3/8
450	1/2

③ Body Material

BSBM	Brass
SUS	Stainless Steel (SUS304)

④ Packing Material

HNBR	Hydrogen added Nitrite butadiene rubber
NR-28	Chloroprene rubber (Neoprene)

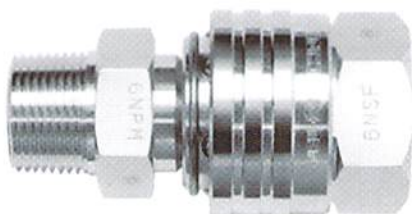
Valve - less Coupling

NSP Series



Medium Pressure Applications
(Straight through)

Valve less coupling construction Body materials: Brass and Stainless Steel
Available in various sizes and fittings



Features

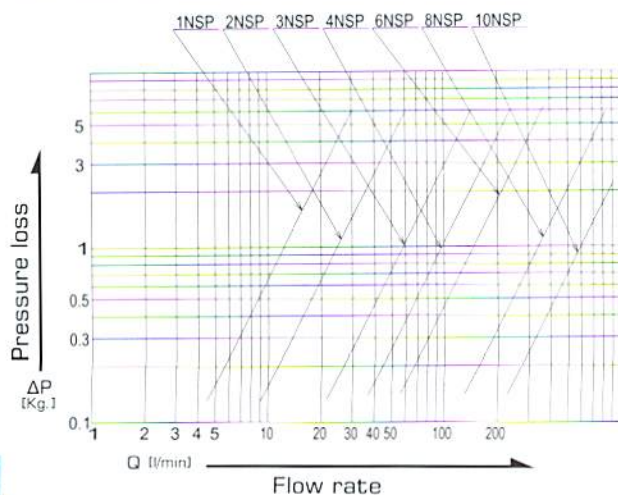
- Valve-less design construction.
- Valve-less coupling design construction reduces pressure losses in high viscosity fluids, powder, water, vapor, grease, chemicals etc. flow applications.
- Available in male thread (M), female thread (F) and hose nipple (H) type to suit a wide variety of applications.

Specifications

Body Material	Brass (BSBM)				Stainless Steel			
	1/8", 1/4", 3/8", 1/2"	3/4", 1"	1 1/4", 1 1/2"	2"	1/8", 1/4", 3/8", 1/2"	3/4", 1"	1 1/4", 1 1/2"	2"
Size								
Working Pressure MPa (kg/cm ²)	4.9 (50)	2.9 (30)	2.0 (20)	1.5 (15)	7.4 (75)	4.4 (45)	2.9 (30)	2.0 (20)
Pressure Resistance MPa (kg/cm ²)	7.4 (75)	4.4 (45)	2.9 (30)	2.3 (23)	9.8 (100)	6.4 (65)	4.4 (45)	2.9 (30)
Packing material, Working temperature range	Material		Symbol	Working Temperature		Remarks		
	Nitrile butadiene rubber		No mark	-20°C ~ +80°C		Standard material		
	Fluorine rubber		VT-20	-15°C ~ +180°C		Standard material		
	Ethylene Propylene rubber		EPT	-10°C ~ +150°C		Semi - Std material		

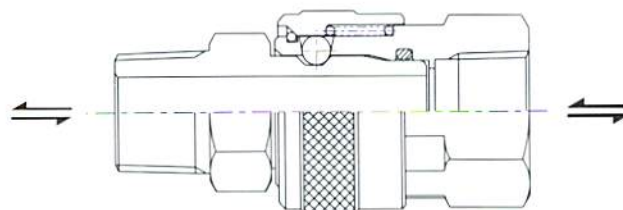
Characteristics

Measuring conditions: Standard Hydraulic Fluid,
Temperature: 30°C +/- 5°C



Fluid Flow Direction

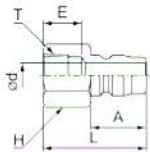
Fluid flows in either direction from socket or plug



Product Models & Dimensions

Plug

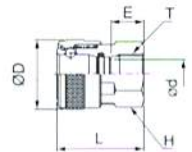
NPF Series



Female Thread Connection

Socket

NSF Series



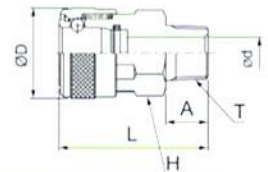
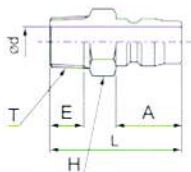
Model	L (mm)	A (mm)	d (mm)	E (mm)	T	H (mm)	SUS Weight (g)	BSBM
1-NPF	28.5	15.5	4.5	11	Rc 1/8	HEX. 14	18	18
2-NPF	35	18	6.5	14	Rc 1/4	HEX. 17	30	32
3-NPF	40	21.5	10	15	Rc 3/8	HEX. 21	46	50
4-NPF	45	24	13	17	Rc 1/2	HEX. 29	105	114
6-NPF	51	28	17	19	Rc 3/4	HEX. 35	164	176
8-NPF	60	36.5	25	21	Rc 1	HEX. 41	272	291
10-NPF	64	39	32	25	Rc 1 1/4	HEX. 54	441	479
12-NPF	75	45	38	25	Rc 1 1/2	HEX. 58	583	629
16-NPF	83	51	50	24	Rc 2	HEX. 77	1195	1269

Model	L (mm)	D (mm)	E (mm)	T	H (mm)	d (mm)	SUS Weight (g)	BSBM
1-NSF	27	18	9.5	Rc 1/8	HEX. 14	4.5	26	28
2-NSF	32	24	13	Rc 1/4	HEX. 19	8	58	61
3-NSF	35	28	13	Rc 3/8	HEX. 23	12	80	87
4-NSF	42	35	17	Rc 1/2	HEX. 29	16	145	155
6-NSF	48.1	45	19	Rc 3/4	HEX. 38	20	295	319
8-NSF	59.3	57	21	Rc 1	HEX. 50	26	563	603
10-NSF	64.1	69	23	Rc 1 1/4	HEX. 54	36	871	908
12-NSF	71.2	75	23	Rc 1 1/2	HEX. 58	42	997	1062
16-NSF	80	98	27	Rc 2	HEX. 77	54	1857	1890

NPM Series

Male Thread Connection

NSM Series



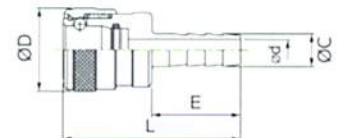
Model	L (mm)	A (mm)	d (mm)	E (mm)	T	H (mm)	SUS Weight (g)	BSBM
1-NPM	32	15.5	4.5	10	Rc 1/8	HEX. 12	14	16
2-NPM	38	18	6.5	13	Rc 1/4	HEX. 14	26	28
3-NPM	43	21.5	10	13	Rc 3/8	HEX. 19	43	46
4-NPM	52	24	13	17	Rc 1/2	HEX. 23	80	87
6-NPM	59	28	17	19	Rc 3/4	HEX. 32	155	167
8-NPM	73	36.5	25	22	Rc 1	HEX. 41	303	322
10-NPM	83	39	32	23	Rc 1 1/4	HEX. 50	502	545
12-NPM	93	45	38	26	Rc 1 1/2	HEX. 54	617	665
16-NPM	102	51	50	27	Rc 2	HEX. 75	1245	1340

Model	L (mm)	D (mm)	d (mm)	E (mm)	T	H (mm)	SUS Weight (g)	BSBM
1-NSM	30	18	4.5	9	Rc 1/8	HEX. 14	27	28
2-NSM	42	24	7	13	Rc 1/4	HEX. 19	67	71
3-NSM	46	28	10	13	Rc 3/8	HEX. 23	97	105
4-NSM	56	35	13	17	Rc 1/2	HEX. 29	177	189
6-NSM	65.1	45	18	19	Rc 3/4	HEX. 38	355	379
8-NSM	76.3	57	24	22	Rc 1	HEX. 50	609	626
10-NSM	86.1	69	32	25	Rc 1 1/4	HEX. 54	997	1047
12-NSM	95.2	75	38	25	Rc 1 1/2	HEX. 58	1179	1234
16-NSM	108	98	50	29	Rc 2	HEX. 77	2042	2247

NPH Series

Hose Connection

NSH Series



Model	L (mm)	A (mm)	D (mm)	d (mm)	E (mm)	C (mm)	SUS Weight (g)	BSBM
1-NPH	41	15.5	11	3	20	6.5	12	13
2-NPH	53	18	14	5	29	8	21	24
3-NPH	60	21.5	18	7	30	11	40	44
4-NPH	66	24	22	10	35	15	69	74
6-NPH	79	28	28	15	43	21	126	134
8-NPH	98	36.5	40	19	50	27	319	341
10-NPH	120	39	48	26	70	34.5	490	523
12-NPH	132	45	55	32	75	41	678	728
16-NPH	142	51	70	40	80	54	1331	1445

Model	L (mm)	D (mm)	C (mm)	E (mm)	d (mm)	SUS Weight (g)	BSBM
1-NSH	40	18	6.5	20	3	26	29
2-NSH	55	24	8	29	5	63	66
3-NSH	60	28	11	30	7	95	102
4-NSH	69	35	15	35	10	167	177
6-NSH	84.1	45	21	43	15	338	360
8-NSH	95.3	57	27	50	19	540	573
10-NSH	119.1	69	34.5	70	26	904	1004
12-NSH	128.2	75	41	75	32	1085	1146
16-NSH	141	98	54	80	40	2145	2283

Ordering Information

① Size

1	1/8
2	1/4
3	3/8
4	1/2
6	3/4
8	1
10	1 1/4
12	1 1/2
16	2

2NSF - BSBM-

① ②③ ④ ⑤

② Type

S	Socket
P	Plug

③ Connection Type

M	Male threaded
F	Female threaded
H	Hose Connection

⑤ Packing Material

No Mark	Nitrite butadiene rubber
VT-20	Fluorine rubber
EPT	Ethylene Propylene rubber

④ Body Material

BSBM	Brass
SUS	Stainless Steel (SUS304)

UNIC Coupling

UNIC Series



General Purpose Air Applications
(One-way Shut-off valve)

Pneumatic tools and equipments air line connections
Long operation life, Rigid design



Features

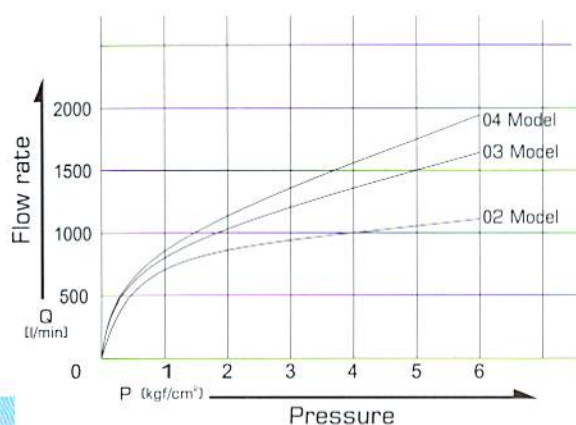
- General purpose coupling with fluid flow from socket to plug.
- Applications in factory pneumatic lines enhances compressor life and saves air power consumption.
- High flow models with high wear resistance are available. (Type 004, 006 and 008)
- Available in various body materials, sizes and connection types. (Recommended Steel - Air, Brass & Stainless Steel - Water)
- Interchangeable with Super Tube Coupling. (UNIC 300 Series)

Specifications

Body Material	Chrome plated steel, Brass, Stainless steel			
Size	1/8" to 1"			
Connection Types	Male thread (M), Female thread (F), Hose nipple (H)			
Working Pressure MPa (kgf/cm ²)	0.98 (10)			
Pressure Resistance MPa (kgf/cm ²)	1.47 (15)			
Packing Material	Material	Symbol	Working Temperature	Remarks
	Nitrile butadiene rubber	No mark	-20°C ~ +80°C	Standard material
	Fluorine rubber	VT 20	-15°C ~ +180°C	Semi-standard Material

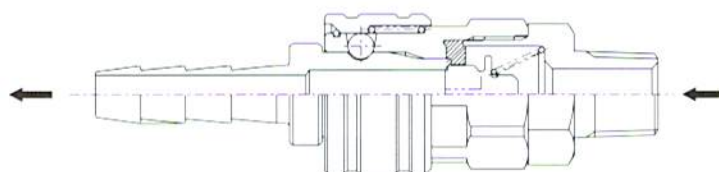
Characteristics

Measuring conditions: Fluid Air



Fluid Flow Direction

Fluid air flows from socket to plug

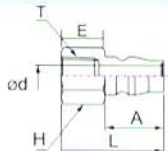


Product Models & Dimensions

Plug

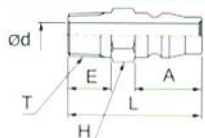


FP Series



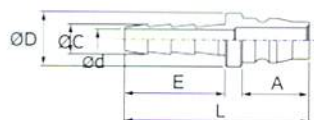
Model	L (mm)	A (mm)	d (mm)	E (mm)	T	H (mm)	Steel	Weight (g)	
								BSBM	SUS
FP-02	36	20	7.5	13	Rc 1/4	HEX 17	28	30	28
FP-03	38	20	7.5	15	Rc 3/8	HEX 21	40	40	37
FP-04	38	20	7.5	15	Rc 1/2	HEX 29	81	51	83
FP-004	41.5	23.5	13	15	Rc 1/2	HEX 29	100	87	86
FP-006	44.5	23.5	13	17	Rc 3/4	HEX 32	118	126	94
FP-008	49	23.5	13	20	Rc 1	HEX 38	215	209	133

MP Series



Model	L (mm)	A (mm)	d (mm)	E (mm)	T	H (mm)	Steel	Weight (g)	
								BSBM	SUS
MP-01	38	20	5	12	R 1/8	HEX 14	21	23	--
MP-02	40	20	7.5	13	R 1/4	HEX 14	25	27	25
MP-03	40	20	7.5	13	R 3/8	HEX 17	34	40	45
MP-04	46	20	7.5	17	R 1/2	HEX 21	64	76	70
MP-004	47	23.5	13	17	R 1/2	HEX 21	63	75	62
MP-006	51	23.5	13	17.5	R 3/4	HEX 27	114	125	144
MP-008	54	23.5	13	20.5	R 1	HEX 35	141	199	176

HP Series

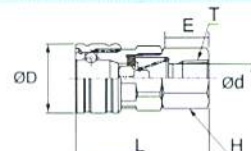


Model	L (mm)	A (mm)	D (mm)	C (mm)	d (mm)	E (mm)	Steel	Weight (g)	
								BSBM	SUS
HP-02	57	20	16	9	5	30	24	28	24
HP-03	61	20	16	11.3	7.5	34	29	31	29
HP-04	63	20	18	15	9	36	38	42	38
HP-004	66.5	23.5	22	15	9	36	71	70	62
HP-006	76.5	23.5	25	21	13	45	125	122	116
HP-008	86.5	23.5	30	27	18.5	55	154	169	156

Socket



FS Series

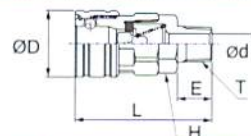


Model	L (mm)	D (mm)	E (mm)	T	H (mm)	d (mm)	Steel	Weight (g)	
								BSBM	SUS
FS-02	50.5	25.5	13	Rc 1/4	HEX 19	9	97	95	89
FS-03	51.5	25.5	15	Rc 3/8	HEX 21	9	101	97	92
FS-04	52.5	25.5	15	Rc 1/2	HEX 29	9	139	144	135
FS-004	59	35	17	Rc 1/2	HEX 29	17	222	233	217
FS-006	62	35	17	Rc 3/4	HEX 32	17	270	281	232
FS-008	65	35	20	Rc 1	HEX 38	17	321	358	280

Female Thread Connection

Male Thread Connection

MS Series

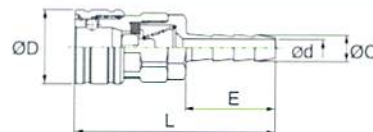


Model	L (mm)	D (mm)	d (mm)	E (mm)	T	H (mm)	Steel	Weight (g)	
								BSBM	SUS
MS-02	55.5	25.5	7	13	R 1/4	HEX 19	98	86	82
MS-03	56.5	25.5	8	14	R 3/8	HEX 19	104	92	87
MS-04	59.5	25.5	12	16	R 1/2	HEX 21	120	114	106
MS-004	64	35	13	17	R 1/2	HEX 29	213	228	210
MS-006	65	35	17	18	R 3/4	HEX 29	229	254	231
MS-008	67.5	35	25	20	R 1	HEX 35	284	312	273

Note for MS - 04 (BSBM) = 22 mm

Hose Connection

HS Series



Model	L (mm)	D (mm)	C (mm)	d (mm)	E (mm)	Steel	Weight (g)	
							BSBM	SUS
HS-02	72.5	25.5	9	5	30	99	84	80
HS-03	76.5	25.5	11.3	7.5	34	104	88	83
HS-04	78.5	25.5	15	9	36	114	100	112
HS-004	84	35	15	9	36	226	233	217
HS-006	92	35	21	14	45	260	264	260
HS-008	102	35	27	19	55	279	318	293

Note for HS - 006 (SUS) d is 13mm

Ordering Information

MS-02-BSBM-□

① Connection Type

M	Male threaded
F	Female threaded
H	Hose Connection

② Type

S	Socket
P	Plug

③ Size

01	1/8
02	1/4
03	3/8
04	1/2
004	1/2 (Large Flow)
006	3/4 (Large Flow)
008	1 (Large Flow)

④ Body Material

No Mark	Chrome plated Steel
BSBM	Brass
SUS	Stainless Steel (SUS304)

⑤ Packing Material

No Mark	Nitrite butadiene rubber
VT-20	Fluorine rubber

Note : Specification sizes are applicable for chrome plated steel body material. Consult us for other body materials.

Super Tube Coupling

UNIC300 Series



Nut Fitting Type,
For Urethane Hose Applications

Secured urethane hose fittings !



Features

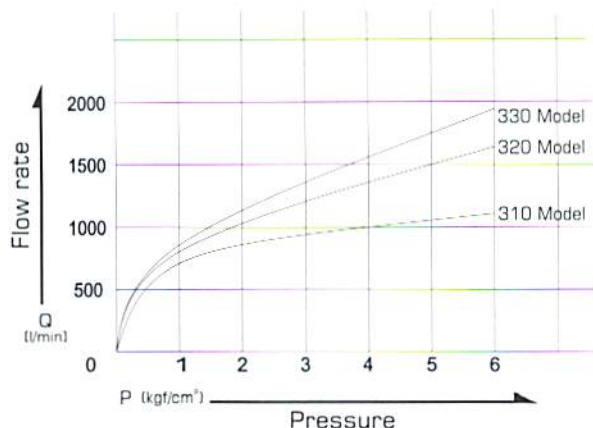
- Hose clamp bands not required. Secured urethane hose connections possible.
- No protruding of hose clamp bolts. The design doesn't let couplings get caught while hose is moved.
- Secured hose fitting to coupler avoids leakage problems.
- Reduced power consumption and improved compressor life.
- Possible to connect UNIC coupling (02, 03 and 04 models)
- Interchangeable with UNIC Coupling (UNIC Series)

Specifications

Body Material	Chrome plated steel			
Size	For Ø 5 mm x Ø 8 mm hose, For Ø 6.5 mm x Ø 10 mm hose For Ø 8 mm x Ø 12 mm hose			
Working Pressure MPa (kgf/cm ²)	0.98(10)			
Pressure Resistance MPa (kgf/cm ²)	1.47 (15)			
Packing Material	Material	Symbol	Working Temperature	Remarks
	Nitrile butadiene rubber	No mark	-20°C ~ +80°C	Standard material
	Fluorine rubber	VT20	-15°C ~ +180°C	Semi-standard Material

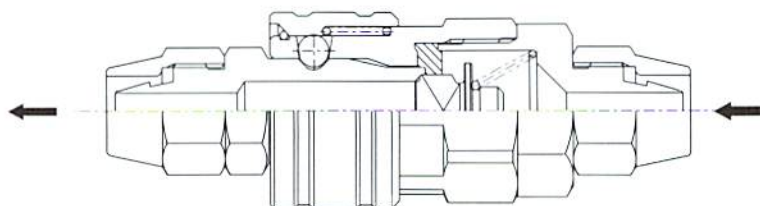
Characteristics

Measuring conditions: Fluid Air



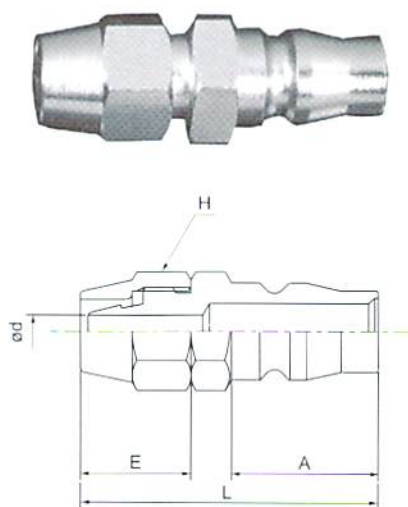
Fluid Flow Direction

Fluid air flows from socket to plug



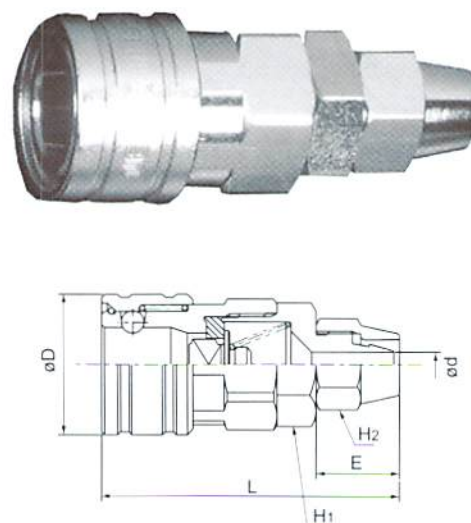
Product Models & Dimensions

Plug



Model	L (mm)	A (mm)	d (mm)	E (mm)	H (mm)	W (g)
310PAN	40.5	20	4.5	15	HEX. 14	30
320PAN	43	20	5	17	HEX. 16	38
330PAN	46	20	7	20	HEX. 19	54

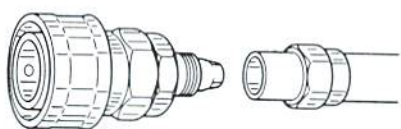
Socket



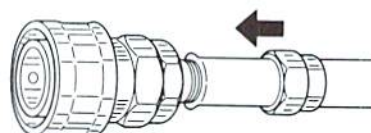
Model	L (mm)	D (mm)	H1 (mm)	E (mm)	H2 (mm)	d (mm)	W (g)
310SAN	53.5	25	HEX. 19	15	HEX. 14	4.5	101
320SAN	55.5	25	HEX. 19	17	HEX. 16	5	110
330SAN	58.5	25	HEX. 19	20	HEX. 19	7	121

Urethane Hose Installation

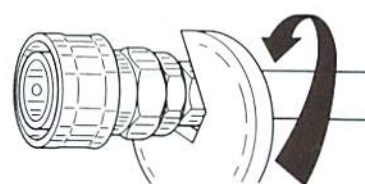
1 Insert nut in hose



2 Move nipple part to hose opening



3 Fasten nut using wrench.
Hose connection is secured



Ordering Information

310 - SAN -

① ② ③

① Size

310	Ø 8 mm
320	Ø 10 mm
330	Ø 12 mm

② Type

S	Socket
P	Plug

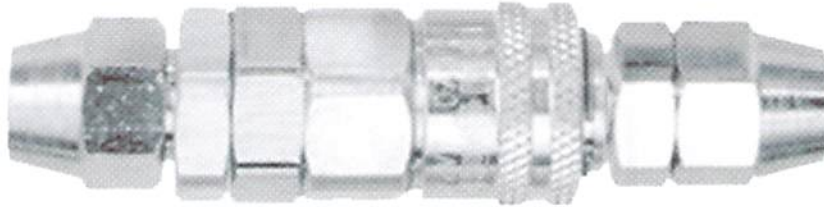
② Packing Material

No Mark	Nitrite butadiene rubber
VT-20	Fluorine rubber



Light, Compact Pneumatic Pipe Applications

One-Touch connection coupling for pneumatic tools & equipments.



Features

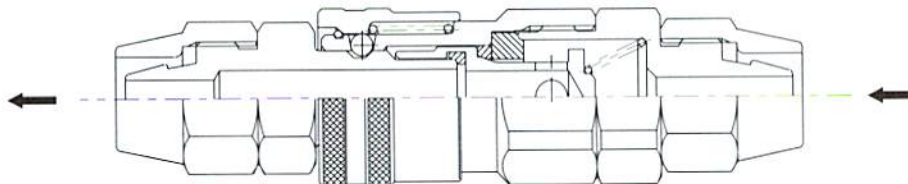
- Simple one touch connection. Just push plug to socket.
- High durability, less susceptible to corrosion. Chrome-plating finish on brass body material.
- High durability valve with built-in socket design. Available in a wide variety of models to meet different application requirements.
- Improved compressor life with reduction in power consumption.

Specifications

Body Material	Socket: Brass (Chrome plated) Plug: Steel (Chrome plated)
Size	1/8", 1/4"
Connection Types	Female thread, Male thread, hose connection, Urethane hose connection
Working Pressure MPa (kgf/cm ²)	0.98 (10)
Pressure Resistance MPa (kgf/cm ²)	1.47 (15)

Packing Material	Material	Symbol	Working Temperature	Remarks
	Nitrile butadiene rubber	No mark	-20°C ~ +80°C	Standard material
	Fluorine rubber	VT-20	-15°C ~ +180°C	Semi-standard Material

Fluid Flow Direction



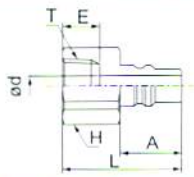
Fluid air flows from socket to plug

Product Models & Dimensions

Plug

PF Series (Plug)

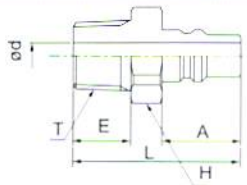
Female Thread Connection



Model	L (mm)	A (mm)	E (mm)	d (mm)	T	H (mm)	W (g)
201PF	28	15	10	6	Rc 1/8	HEX. 14	16
202PF	29	15	11	6	Rc 1/4	HEX. 17	20
202PFF	28	15	10	6	G 1/4	HEX. 17	21

PM Series (Plug)

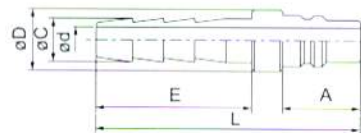
Male Thread Connection



Model	L (mm)	A (mm)	E (mm)	d (mm)	T	H (mm)	W (g)
201PM	31	15	10	6	R 1/8	HEX. 12	11
202PM	32	15	11	6	R 1/4	HEX. 17	21

PH Series (Plug)

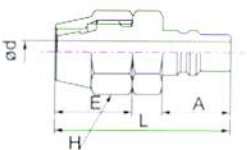
Hose Connection



Model	L (mm)	A (mm)	C (mm)	D (mm)	d (mm)	E (mm)	W (g)
202PH	51	15	8.5	12	5	30	15

PN Series (Plug)

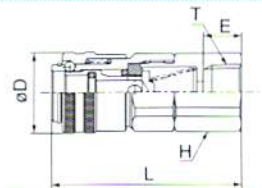
Urethane Hose Connection



Model	L (mm)	A (mm)	H (mm)	E (mm)	d (mm)	W (g)
201PN	36	15	HEX. 14	15	4	22
202PN	38	15	HEX. 16	17	5	34

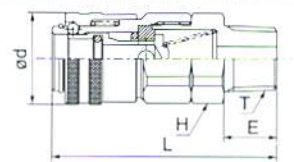
Socket

SF Series (Socket)



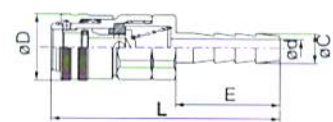
Model	L (mm)	D (mm)	E (mm)	T	H (mm)	W (g) BSBM
201SF	48.8	19	9	Rc 1/8	HEX. 17	58
202SF	48.8	19	9	Rc 1/4	HEX. 17	54

SM Series (Socket)



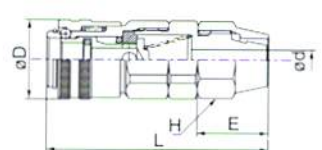
Model	L (mm)	D (mm)	E (mm)	T	H (mm)	W (g) BSBM
201SM	45	19	9	R 1/8	HEX. 17	49
202SM	47	19	11	R 1/4	HEX. 17	53

SH Series (Socket)



Model	L (mm)	D (mm)	C (mm)	d (mm)	E (mm)	W (g) BSBM
202SH	66	19	8.5	5	30	52

SN Series (Socket)



Model	L (mm)	D (mm)	H (mm)	E (mm)	d (mm)	W (g) BSBM
201SN	51	19	HEX. 17	15	4	59
202SN	53	19	HEX. 17	17	5	64

Ordering Information

202 S H -

① ② ③ ④

① Size

201	1/8
202	1/4

② Type

S	Socket
P	Plug

③ Connection Type

M	Male threaded
F	Female threaded
H	Hose Connection
N	Urethane Hose Connection

④ Packing Material

No Mark	Nitrile butadiene rubber
VT-20	Fluorine rubber

Micro Super Mini Coupling

CA00 Series



For Scientific Equipment Applications

Lightweight, Compact Coupling for Scientific Equipment Applications (Air, liquid etc.)
One-touch connection



Features

- Simple one touch push operation connects plug to socket.
- Highly durable, corrosive resistance chromium plated brass used for body material.
- Super mini size automatic joints. Fittings with smallest diameter 10 mm.
- Highly durable valve construction with built-in type socket. Wide applications to meet various requirements in modern scientific equipment requirements.

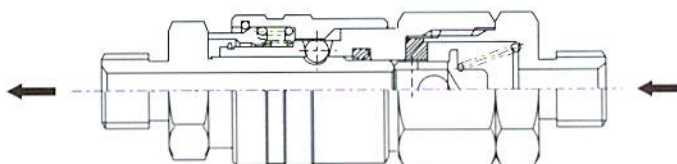
Specifications

Body Material	Brass (Chrome plated)
Size	M5, 1/8", Ø 6 mm x Ø 4 mm, Ø 5 mm x Ø 3 mm Hose
Working Pressure MPa (kgf/cm ²)	0.98 (10)
Pressure Resistance MPa (kgf/cm ²)	1.47(15)

Packing Material	Material	Symbol	Working Temperature	Remarks
	Nitrile butadiene rubber	No mark	-20°C ~ +80°C	Standard material
	Fluorine rubber	VT-20	-15°C ~ +180°C	Semi-standard Material

Custom made coupling : We design, manufacture and supply special requirement couplings for Semiconductor, Physics, Chemistry laboratories, Medical, Biotechnology etc. application requirements. The special couplings are designed with stainless steel and recommended materials.

Fluid Flow Direction



Fluid air flows from socket to plug

Ordering Information

CA-00- - - -

① ② ③ ④

① Connection Type

M	Male threaded
F	Female threaded
H	Hose Connection
N	Urethane Hose Connection

② Type

S	Socket
P	Plug

③ Connection Type

M5 Female Thread
M5 Male Thread
1/8" Male Thread
1/8" Female Thread
For hose Ø 6 mm x Ø 4 mm
For hose Ø 5 mm x Ø 3 mm
For Urethane hose Ø 6 mm x Ø 4 mm

④ Packing Material

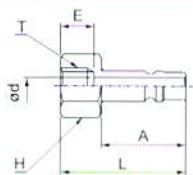
No Mark	Nitrile butadiene rubber
VT-20	Fluorine rubber

Product Models & Dimensions

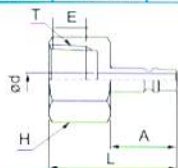
Plug

FP Series (Plug)

Female Thread Connection



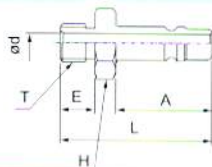
Model	L (mm)	A (mm)	T (mm)	E (mm)	H (mm)	d (mm)	W (g)
CA00 FP M5	18.5	12.5	M5P0.8	5	HEX. 8	2.4	3



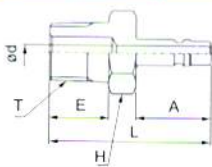
Model	L (mm)	A (mm)	T (mm)	E (mm)	H (mm)	d (mm)	W (g)
CA00 FP Rc1/8	24	12.5	Rc 1/8	9	HEX. 14	2.4	3

MP Series (Plug)

Male Thread Connection



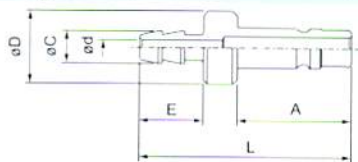
Model	L (mm)	A (mm)	T (mm)	E (mm)	H (mm)	d (mm)	W (g)
CA00 MP M5	19.8	12.5	M5P0.8	4.5	HEX. 8	2.4	3



Model	L (mm)	A (mm)	T (mm)	E (mm)	H (mm)	d (mm)	W (g)
CA00 MP R1/8	27	12.5	R 1/8	10	HEX. 12	2.4	10

HP Series (Plug)

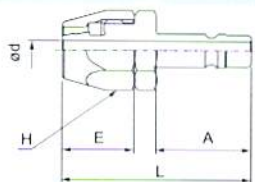
Hose Connection



Model	L (mm)	A (mm)	D (mm)	C (mm)	E (mm)	d (mm)	W (g)
CA00 HP Ø5X3	23.3	12.5	8	3.5	7	1.6	3
CA00 HP Ø6X4	23.3	12.5	8	4.7	8	2.4	3

NP Series (Plug)

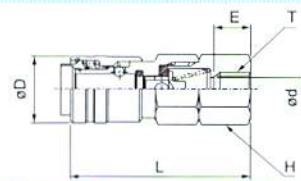
Urethane Hose Connection



Model	L (mm)	A (mm)	H (mm)	E (mm)	d (mm)	W (g)
CA00 NP Ø6X4	25	12.5	HEX. 9	9.6	2.4	7

Socket

FS Series (Socket)

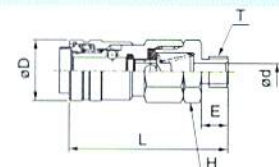


Model	L (mm)	D (mm)	T (mm)	E (mm)	H (mm)	d (mm)	W (g)
CA00 FS M5	28.4	10	M5P0.8	5.5	HEX. 9	3.5	10



Model	L (mm)	D (mm)	T (mm)	E (mm)	H (mm)	d (mm)	W (g)
CA00 FS Rc1/8	33	10	Rc 1/8	9	HEX. 14	4	16

MS Series (Socket)

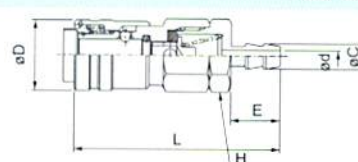


Model	L (mm)	D (mm)	T (mm)	E (mm)	H (mm)	d (mm)	W (g)
CA00 MS M5	28.2	10	M5P0.8	4.5	HEX. 9	2.5	9



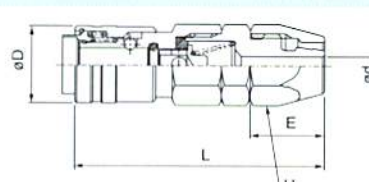
Model	L (mm)	D (mm)	T (mm)	E (mm)	H (mm)	d (mm)	W (g)
CA00 MS R1/8	34.9	10	R 1/8	10	HEX. 12	4	15

HS Series (Socket)



Model	L (mm)	D (mm)	C (mm)	E (mm)	H (mm)	d (mm)	W (g)
CA00 HS Ø5X3	30.7	10	3.5	7	HEX. 9	1.6	9
CA00 HS Ø6X4	31.7	10	4.7	8	HEX. 9	2.4	9

NS Series (Socket)



Model	L (mm)	D (mm)	H (mm)	E (mm)	d (mm)	W (g)
CA00 NS Ø6X4	33.9	10	HEX. 9	9.6	2.4	15

Super Tube Connector

CAP Series



For Polyurethane, Nylon, Teflon Tube Fittings

Super Compact Pneumatic Connector for Airtight Tube Connections
One-touch, Push Connection



Features

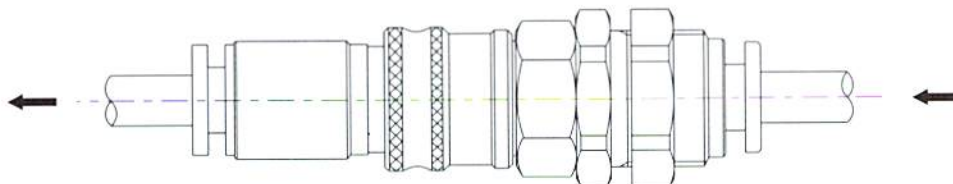
- Super compact, lightweight tube connector
- Simple one touch push-in connection
- Highly durable, corrosive resistance chromium plated brass used for body material.
- Simple, smooth and efficient piping of various types of tubes.

Specifications

Body Material	Brass (Chrome plated)			
Size	Tube Ø 4 mm, Ø 6 mm and Ø 8 mm			
Applicable Tubes	Polyurethane, Nylon, Teflon			
Working Pressure MPa (kgf/cm ²)	0.98 (10)			
Pressure Resistance MPa (kgf/cm ²)	1.47 (15)			
Packing Material	Material	Symbol	Working Temperature	Remarks
	Nitrile butadiene rubber	No mark	-20°C ~ +80°C	Standard material

Fluid Flow Direction

Fluid air flows from socket to plug



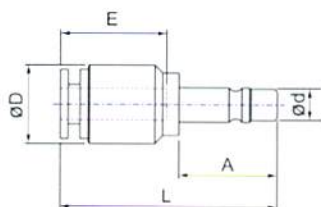
Product Models & Dimensions

Plug

Socket

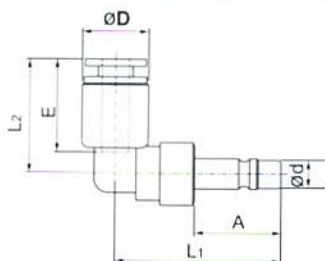
CA Type

CA - OHP



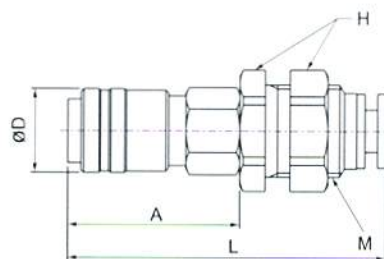
Model	L (mm)	A (mm)	D (mm)	E (mm)	d(mm)	W(g)
CA-OHP4	27.5	12.5	10	13.5	2.4	5
CA-OHP6	28.5	12.5	12	14.5	2.4	6

CA-OLP



Model	L1 (mm)	L2 (mm)	A (mm)	D (mm)	E (mm)	d(mm)	W(g)
CA-OLP4	24	16.5	4.4	9.6	13.5	2.2	6
CA-OLP6	25	18.5	4.4	11.8	14.5	2.2	8

CA - OSV

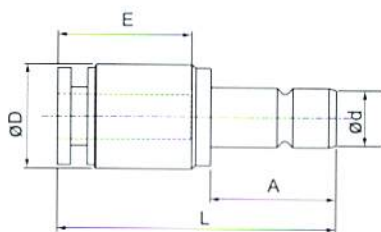


Model	L (mm)	D (mm)	A (mm)	H (mm)	M	W(g)
CA-OSV4	38	10	20.6	HEX. 13	M11 X P1.0	18
CA-OSV6	41	10	20.6	HEX. 17	M14 X P1.0	27

- Quick Tube Connector CA type have interchangeability with Micro Super Mini CA00 couplings

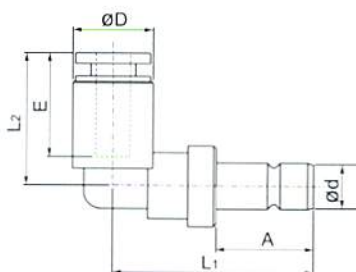
AP Type

AP-H



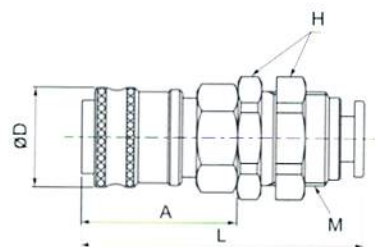
Model	L (mm)	A (mm)	D (mm)	E (mm)	d(mm)	W(g)
AP-H6	37.5	16.9	14	18	4	19
AP-H8	39.5	16.9	15	19.5	4	21

AP-L



Model	L1 (mm)	L2 (mm)	A (mm)	D (mm)	E (mm)	d(mm)	W(g)
AP-L6	35	23	16.9	14	18	4	18
AP-L8	36	25	16.9	16	19.5	4	22

AP-V



Model	L (mm)	D (mm)	A (mm)	H (mm)	M	W(g)
AP-V6	50.7	17	26.5	HEX. 19	M19 X P1.0	53
AP-V8	52.7	17	26.5	HEX. 21	M21 X P1.0	65

- Quick Tube Connector AP type have interchangeability with New Auto Joint AP, APV series couplings

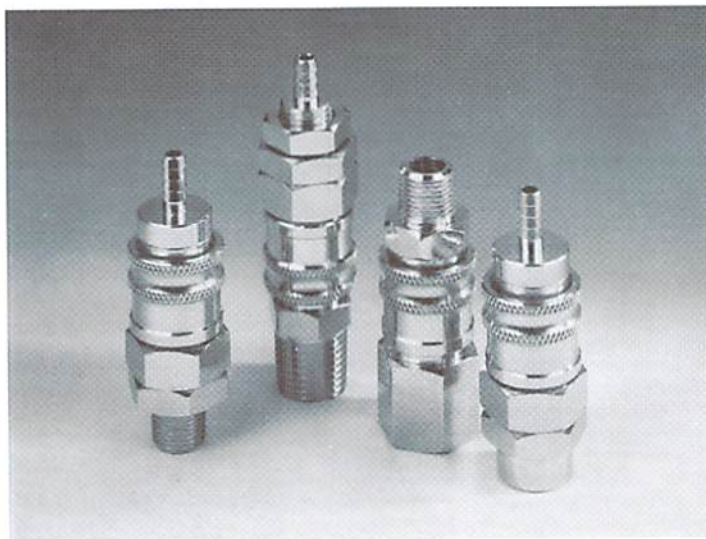
New Auto Joint (For Pneumatic Equipments)

AP Series

Compact, Operation Friendly Fluid Joint
Available in Several Models



For Pneumatic Equipment



Features

- Lightweight, compact and high flow capacity automatic fluid joint.
- AP series is popular for its double safety airtight construction. It is suitable for wide range of leakage proof applications in very low pressure to medium pressure requirements
- Highly durable, rust prevention chrome plating on socket body made of brass
- Quick, single hand disconnection operation
- Easy handling while fluid is flowing
- One-touch connection. Push-in socket in to plug

Specifications

Working Pressure MPa (kgf/cm ²)	0.98 (10)		
Pressure Resistance MPa (kgf/cm ²)	1.47 (15)		
Valve Type	AP Two direction release type	APV Single direction open/close type	APVC Two direction open/close type
Minimum cross sectional area	16 mm ²	16 mm ²	3.4 mm ²

APVC 20/30 Series

Large Flow Type

Two-way Shut-off Type

Plug

Socket



APVC-20 SF

① ② ③ ④

① Model

APVC Two-way Shut-off

② Size

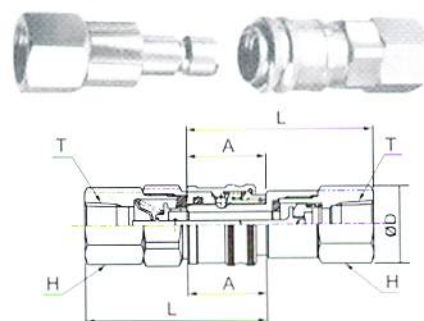
20 1/4
30 3/8

③ Type

S Socket
P Plug

④ Connection
Type

F Female



MODEL	L (mm)	A (mm)	T	D (mm)	H (mm)
APVC-20 SF	56	23	RC 1/4	23	19
APVC-30 SF	57		RC 3/8		21
APVC-20 PF	54	23	RC 1/4	--	19
APVC-30 PF	55		RC 3/8		21

Ordering Information

APV-10 SM

① ② ③ ④

① Model

AP Without Valve
APV With Valve

② Size

10 1/8
12 1/4

③ Type

S Socket
P Plug

④ Connection
Type

M Male
F Female
H Hose

APVC-10 SM

① ② ③ ④

① Model

APVC Two-way Shut-off

② Size

10 1/8
12 1/4
20 1/4(Large Flow)
30 3/8(Large Flow)

③ Type

S Socket
P Plug

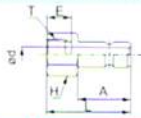
④ Connection
Type

M Male
F Female
H Hose

Product Models & Dimensions

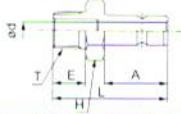
Plug

• AP-P(F)



Model	L (mm)	A (mm)	d(mm)	E (mm)	T	H (mm)	W(g)
AP-10PF	27	16.9	4.5	8	Rc 1/8	HEX. 14	17
AP-12PF	32	16.9	4.5	13	Rc 1/4	HEX. 16	20

• AP-P(M)



Model	L (mm)	A (mm)	d(mm)	E (mm)	T	H (mm)	W(g)
AP-10PM	31	16.9	4.5	9	R 1/8	HEX. 14	10
AP-12PM	35	16.9	4.5	13	R 1/4	HEX. 14	11

• AP-P(H)



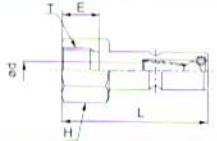
Model	L (mm)	A (mm)	d(mm)	C (mm)	E (mm)	D (mm)	W(g)
AP-10PH	33	16.9	3	4.5	12	13	10
AP-12PH	40	16.9	4.5	6.5	19	13	11

• APV-S(F)



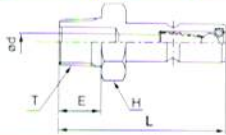
Model	L (mm)	D (mm)	E (mm)	T	H (mm)	d (mm)	W(g)
APV-10SF	43	17	8	Rc 1/8	HEX. 16	7.5	45
APV-12SF	43.4	17	13	Rc 1/4	HEX. 16	7.5	41

• APVC-P(F)



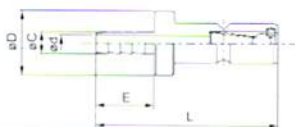
Model	L (mm)	d(mm)	E (mm)	T	H (mm)	W(g)
APVC-10PF	32	4.5	9	Rc 1/8	HEX. 14	11
APVC-12PF	36	4.5	13	Rc 1/4	HEX. 16	22

• APVC-P(M)



Model	L (mm)	d(mm)	E (mm)	T	H (mm)	W(g)
APVC-10PM	35.2	4.5	9	R 1/8	HEX. 14	16
APVC-12PM	39.2	4.5	13	R 1/4	HEX. 14	21

• APVC-P(H)

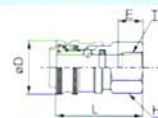


Model	L (mm)	D(mm)	E (mm)	C (mm)	d (mm)	W(g)
APVC-10PH	37.2	13	12	4.5	3	11
APVC-12PH	41.2	13	19	6.5	4.5	12

Socket

AP Type

• AP-S(F)



Model	L (mm)	D (mm)	E (mm)	T	H (mm)	W(g)
AP-10SF	28	17	8	Rc 1/8	HEX. 14	25
AP-12SF	33	17	13	Rc 1/4	HEX. 16	32

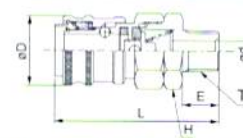
• AP-S(M)



Model	L (mm)	D (mm)	E(mm)	T	H (mm)	d(mm)	W(g)
AP-10SM	31	17	9	R 1/8	HEX. 14	5.5	27
AP-12SM	35	17	13	R 1/4	HEX. 14	7.5	29

APV Type

• APV-S(M)



Model	L (mm)	D (mm)	E(mm)	T	H (mm)	d (mm)	W(g)
APV-10SM	40.2	17	9	R 1/8	HEX. 16	5	45
APV-12SM	44.2	17	13	R 1/4	HEX. 16	7.5	46

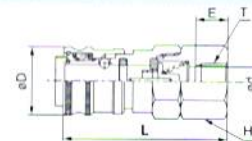
• APV-S(H)



Model	L (mm)	D (mm)	E (mm)	C (mm)	H (mm)	d (mm)	W(g)
APV-10SH	40.5	17	12	4.5	HEX. 16	3	47
APV-12SH	49.5	17	19	6.5	HEX. 16	4.5	45

APVC Type

• APVC-S(F)



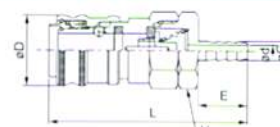
Model	L (mm)	D (mm)	E (mm)	T	H (mm)	d (mm)	W(g)
APVC-10SF	43	17	8	Rc 1/8	HEX. 16	7.5	40
APVC-12SF	43	17	13	Rc 1/4	HEX. 16	7.5	44

• APVC-S(M)



Model	L (mm)	D (mm)	E (mm)	T	H (mm)	d (mm)	W(g)
APVC-10SM	44.7	17	9	R 1/8	HEX. 16	5	40
APVC-12SM	47.7	17	13	R 1/4	HEX. 16	7.5	44

• APVC-S(H)



Model	L (mm)	D (mm)	E (mm)	C (mm)	H (mm)	d (mm)	W(g)
APVC-10SH	47.7	17	12	4.5	HEX. 16	3	32
APVC-12SH	54.7	17	19	6.5	HEX. 16	4.5	39

Mould Coupling

MSP Series

Quick replacement of coolant hose High Corrosion Resistance



For Mould, Die Coolant Applications



Features

- Quick replacement (Connection, Disconnection) of coolant hose to mould and die.
- High Corrosion resistance. Several models available to suit wide variety of mould applications.
- One touch operation. Reduces operator fatigue, simple connection method eliminates previous time consuming coolant hose connection, disconnection process and improves productivity.

Specifications

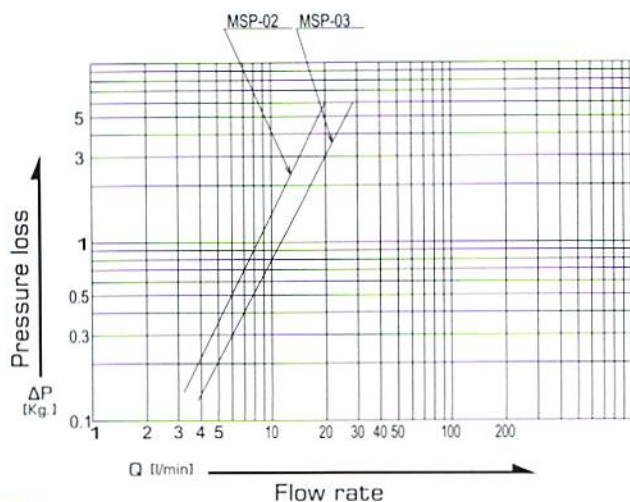
Body Material	Brass
Size	1/8", 1/4", 3/8"
Working Pressure MPa (kgf/cm ²)	0.98 (10)
Pressure Resistance MPa (kgf/cm ²)	1.47 (15)

Packing Material	Material	Symbol	Working Temperature	Remarks
	Fluorine rubber	VT20	-15°C ~ +180°C	Standard material

Minimum Cross-sectional Area (mm²)

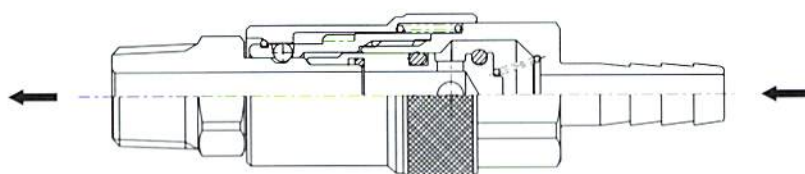
Model	MSP-01	MSP-02	MSP-03
Area	19	28	28

Characteristics: Flow Rate Vs. Pressure Loss



Fluid Flow Direction

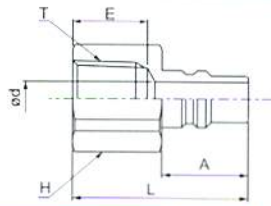
Fluid flows from socket to plug



Product Models & Dimensions

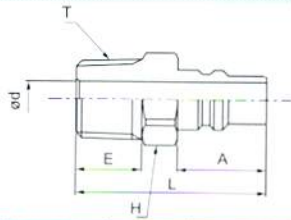
Plug

PF Series



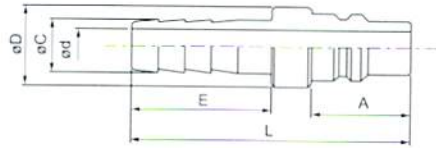
Model	L (mm)	A (mm)	d (mm)	E (mm)	T	H (mm)	W (g)
MPF-01	28	15	6	10	Rc 1/8	HEX. 14	16
MPF-02	30.5	15	6	13	Rc 1/4	HEX. 17	14

PM Series



Model	L (mm)	A (mm)	d (mm)	E (mm)	T	H (mm)	W (g)
MPM-01	31	15	6	10	R 1/8	HEX. 12	12
MPM-02	32	15	6	11	R 1/4	HEX. 14	19
MPM-03	35	15	6	14	R 3/8	HEX. 19	33

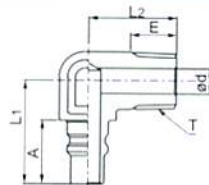
PH Series



Model	L (mm)	A (mm)	C (mm)	D (mm)	d (mm)	E (mm)	W (g)
MPH-02	42	15	8	12	5	21	14
MPH-03	42	15	12	15	6	21	23

PL Series

L Series

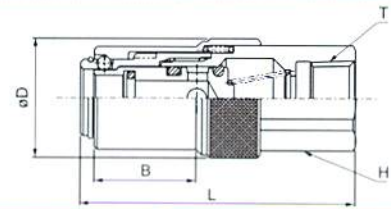


Model	L1 (mm)	L2 (mm)	A (mm)	d (mm)	E (mm)	T	W (g)
MPL-01	24	21	15	6	12	R 1/8	22
MPL-02	24	21	15	6	12	R 1/4	32
MPL-03	25	26	15	6	13	R 3/8	69

Socket

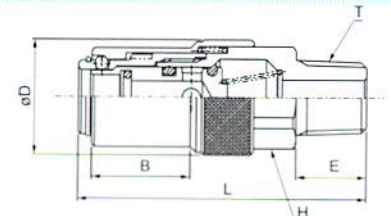
Female Thread Connection

SF Series



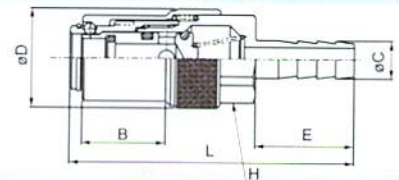
Model	L (mm)	B (mm)	D (mm)	T	H (mm)	W (g)
MSF-01	48.8	18	21	Rc 1/8	HEX. 17	70
MSF-02	48.8	18	21	Rc 1/4	HEX. 17	67

SM Series



Model	L (mm)	B (mm)	D (mm)	E (mm)	T	H (mm)	W (g)
MSM-01	50.8	18	21	11	R 1/8	HEX. 17	62
MSM-02	52.8	18	21	13	R 1/4	HEX. 17	67
MSM-03	52.8	18	21	13	R 3/8	HEX. 17	75

SH Series



Model	L (mm)	B (mm)	C (mm)	D (mm)	E (mm)	H (mm)	W (g)
MSH-02	60.8	18	8	21	21	HEX. 17	60
MSH-03	60.8	18	12	21	21	HEX. 17	69

Ordering Information

MNSM-02 -

① ② ③ ④ ⑤

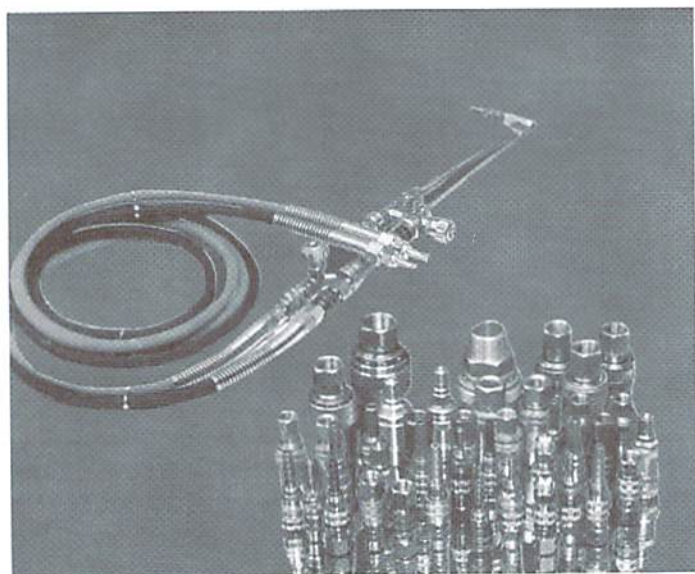
① Model		② Type		③ Connection Type		④ Size		⑤ Packing Material	
No Mark	With Valve	S	Socket	M	Male threaded	01	1/8	VT-20	Fluorine rubber
N	Without Valve	P	Plug	F	Female threaded	02	1/4		
				H	Hose Connection	03	3/8		
				L	Male Thread (L Type)				

New Coupling

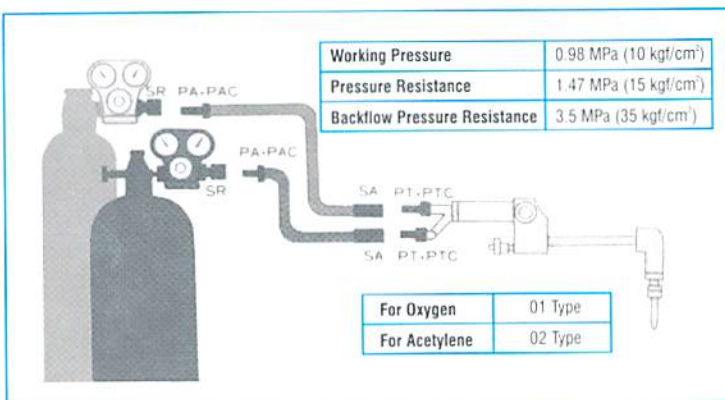
SAP Series



Precision Cutting, Welding etc.
Applications



Minimum Cross-sectional Area (mm²)



Specifications

Body Material	Steel (Chrome plated), Brass		
Applicable fluid	Oxygen, Acetylene		
Packing Material	Material	Working Temperature	Remarks
	Special composition rubber	-20°C ~ +120°C	Standard material

Features

• Double safety lock

Our patented safety lock design system prevents connections being disconnected from socket due to unexpected external forces and vibrations during operation. The design feature allows applications not only in general welding, gas-cutting in-door application but also in severe operating conditions in outdoor applications.

• Double Sealing Construction

Our innovative patented double safety sealing construction eliminates gas leakage while connecting plug into socket

• Backflow Prevention and Anti-inflammatory Plug (PAC/ PTC)

The design construction has inbuilt safety features that operates stop check valve when reverse gas flow is generated due to any trouble at welding, cutting side of the machine. This prevents gas mixing.

• Quality and Function

The components are manufactured with precision quality control. The components are 100% tested for leakage detection with advance technology equipments. Built-in quality and design features ensure high safety standards, excellent operation performance and durability. Design allows ample gas flow to meet application requirements.

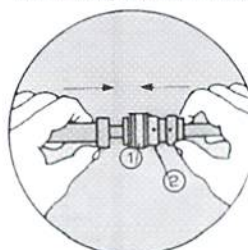
Precautions:

- Plug has seal installed on outside surface. Take precautions to avoid deformation to seal by any external forces.
- Avoid dust, dirty oil invasion.

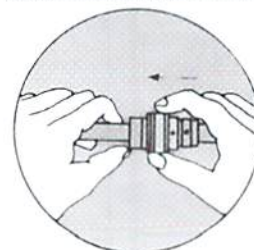
Three points about One-touch lock type connector

- 1) While connecting socket to plug Connect plug into socket by pushing both sides, holding the parts except the sleeve. At connection there will be "Click" sound and sleeve moves a little.
- 2) Safely lock operation Rotate locking collar up to stop position for secured locking.
- 3) While disconnecting socket and plug move locking collar down to unlock position and push sleeve towards the plug. This will disconnect plug from the socket.

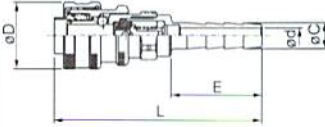
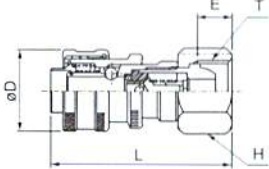
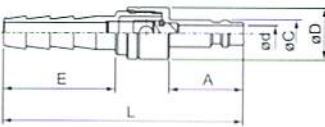
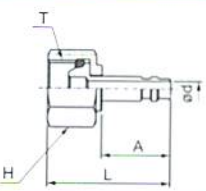
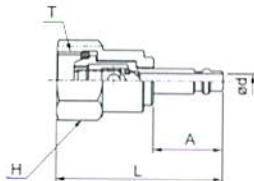
Connecting Socket & Plug



Disconnecting Socket & Plug



- ① Lock Collar
② Sleeve

SA (Socket) 		MODEL	L (mm)	D (mm)	C (mm)	d (mm)	E (mm)	Application	W(g)	
		SA-01 Ø 5.8	58.9	21	5.8	3	20	Oxygen 1/4 Hose	48	
		SA-01 Ø 8.2	66.4	21	8.2	5	29		50	
		SA-02 Ø 5.8	61.3	23	5.8	3	20	Acetylene 3/8 Hose	48	
		SA-02 Ø 10.3	73.8	23	10.3	5.5	34		66	
SR (Socket) 		MODEL	L (mm)	D (mm)	E (mm)	T	H (mm)	Application	W(g)	
		SR-01	46.9	21	9	M16 P 1.5	Right Hex. 19	For Gauge Connection	64	
		SR-02	48.8	23	9	M16 P 1.5	Left Hex. 19		71	
PA (Plug) 		MODEL	L (mm)	A (mm)	C (mm)	d (mm)	D (mm)	E (mm)	Application	W(g)
		PA-01 Ø 5.8 mm	45	19.2	5.8	3	13	20	Oxygen 1/4 Hose	11
		PA-01 Ø 8.2 mm	54	19.2	8.2	5	13	29		14
		PA-02 Ø 5.8 mm	47	21	5.8	3	15	20	Acetylene 3/8 Hose	14
		PA-02 Ø 10.3 mm	63	21	10.3	5.5	15	34		26
PAC (Anti-inflammatory Plug) 		MODEL	L (mm)	A (mm)	C (mm)	d (mm)	D (mm)	E (mm)	Application	W(g)
		PAC-01	62.2	19.2	8.2	5	13	29	Oxygen 1/4 Hose	17
		PAC-02	66.5	21	10.3	5	15	34	Acetylene 3/8 Hose	29
PT (Plug) 		MODEL	L (mm)	A (mm)	T	d (mm)	H (mm)	Application	W(g)	
		PT-01	35.2	19.6	M16 P 1.5	4	Hex. 19	Gas Torch	25	
		PT-02	37	21.4	M16 P 1.5	4.5	Hex. 19	Gas Torch	28	
PTC (Anti-inflammatory Plug) 		MODEL	L (mm)	A (mm)	T	d (mm)	H (mm)	Application	W(g)	
		PTC-01	46.6	19.6	M16 P 1.5	4	Hex. 19	Gas Torch	42	
		PTC-02	46.4	21.4	M16 P 1.5	4.5	Hex. 19	Gas Torch	41	

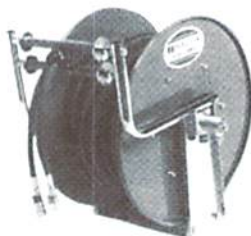
Regulator



Hose Extension



Welding Machine



Quick Disconnection Type

N205 Series

For Various Type Drinks, Drinking Water, Beverage etc.



Pin Lock Type



Features

- Designed for applications in carbonic acid gas charging to syrup tank of drink fluid and supplying syrup in to dispenser
- Design feature allows very low pressure loss and minimum flow drift
- Quick and easy connection of pin lock joint
- Product approved to food hygienic regulations standards. The components used have cleared TASTE TEST.

Our customers include several renowned cold drink and beverage companies in Japan.

Specifications

Model	N205-2 (IN) 2 PIN, N205-3 (OUT) 3 PIN
Body Material	Resin composition designated by Food products authority and approved to food hygienic regulations No. 20
O-ring and Packing material	Fluorine rubber, Nitrite butadiene rubber composition designated by Food products authority and approved to food hygienic regulations No. 20
Body metal and treatment	Stainless steel (SUS304), Normalized heat treatment, Approved TASTE Test standards
Working Temperature	105°C Body color Red
Working Pressure	0.39 MPa (4 kgf/cm ²)
Pressure Resistance	0.98 MPa (10 kgf/cm ²)

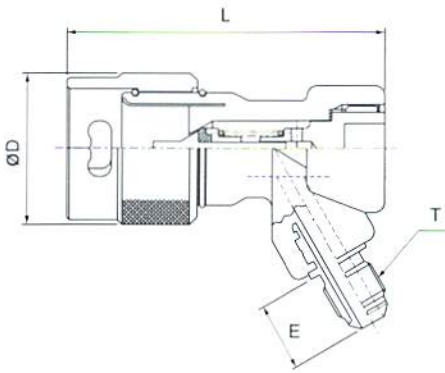
Application Example



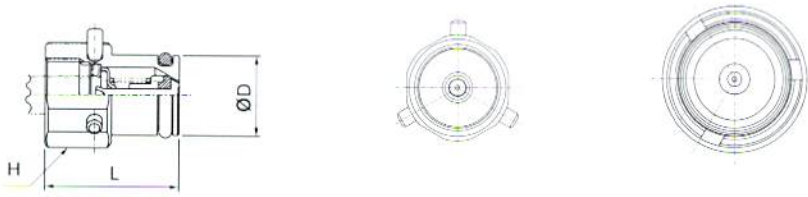
Product Models & Dimensions



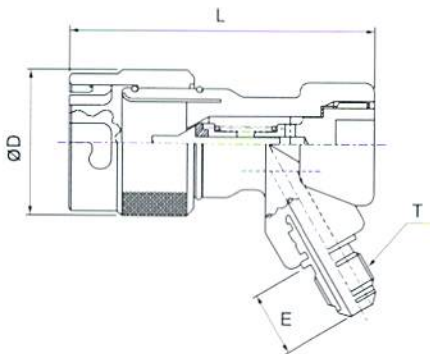
Model	L (mm)	D (mm)	H (mm)	W(g)
N205-2P	27.7	16.6	HEX. 21	37



Model	L (mm)	D (mm)	T	E (mm)	W(g)
N205-2S	63.4	30	7/16-20 UNF	13.5	88



Model	L (mm)	D (mm)	H (mm)	W(g)
N205-3P	27.7	16.6	HEX. 21	38



Model	L (mm)	D (mm)	T	E (mm)	W(g)
N205-3S	63.4	30	7/16-20 UNF	13.5	87

Ordering Information

N-205 - 2 S

① ②

① Pin ② Type

2	2 Pin (IN)	S	Socket
3	3 Pin (OUT)	P	Plug

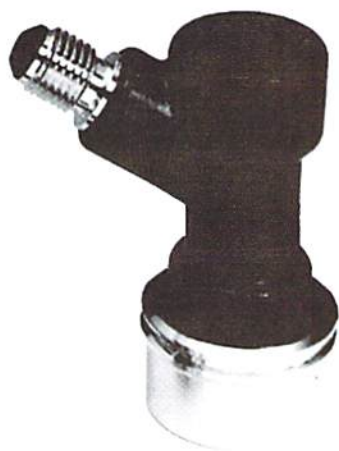
Quick Disconnection Type

BL Series

For Various Type Drinks, Drinking Water, Beverage etc.



Ball Lock Type



Features

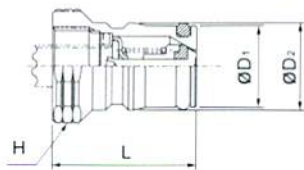
- Designed for applications in carbonic acid gas charging to syrup tank of drink fluid and supplying syrup in to dispenser
- Design feature allows very low pressure loss and minimum flow drift
- Quick and easy connection of Ball lock joint
- Product approved to food hygienic regulations standards. The components used have cleared TASTE TEST.

Our customers include several renowned cold drink and beverage companies in Japan.

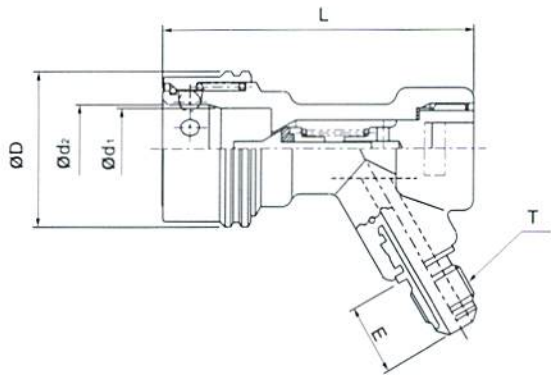
Specifications

Model	BLI-2 (IN) Gas charging Gray color BLO-2 (OUT) Syrup application Black color
Body Material	Resin composition designated by Food products authority and approved to food hygienic regulations No.20
O-ring and Packing material	Fluorine rubber, Nitrite butadiene rubber composition designated by Food products authority and approved to food hygienic regulations No.20
Body metal and treatment	Stainless steel (SUS304), Normalized heat treatment, Approved TASTE Test standards
Working Temperature	105°C
Pressure holding capacity	3.6 MPa (36 kgf/cm ²) Holding for 10 minutes
Working Pressure	0.39 MPa (4 kgf/cm ²)
Pressure Resistance	0.98 MPa (10 kgf/cm ²)

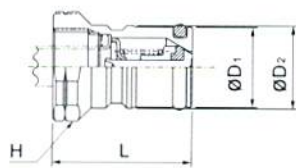
Product Models & Dimensions



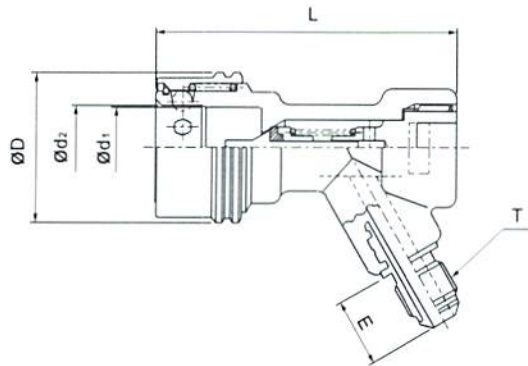
Model	L (mm)	D ₁ (mm)	D ₂ (mm)	H (mm)	W (g)
BLI-2P	27.7	15.9	16.4	HEX. 21	25



Model	L (mm)	D (mm)	d ₁ (mm)	d ₂ (mm)	T	E (mm)	W (g)
BLI-2S	60	29.7	16.1	16.6	7/16-20UNF	13.5	55



Model	L (mm)	D ₁ (mm)	D ₂ (mm)	H (mm)	W (g)
BLO-2P	27.7	15.6	16.8	HEX. 21	25



Model	L (mm)	D (mm)	d ₁ (mm)	d ₂ (mm)	T	E (mm)	W (g)
BLO-2S	60	29.7	15.7	16.9	7/16-20UNF	13.5	55

Ordering Information

BLI- 2 S
① ②

① Size ② Type

I	IN	S	Socket
O	OUT	P	Plug

MEMO

A series of horizontal lines for writing, alternating between light blue and light green colors.

MEMO

A blank sheet of lined paper with horizontal ruling lines. The lines are thin and light blue, spaced evenly across the page. The paper is otherwise empty, with no text or markings.



* The Specifications mentions in this Catalog are subject to change for Improvements.

For the rationalized Coupling of fluids.

NEW



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