Main Block

Customizable swivel manifolds, assembly type of fitting manifold is used for concentrated branching.

⚠ Safety instructions for this product

Safety instructions, Common safety instructions for each product category and Detailed safety instructions for each product are in the end of this catalog and our website.

Model Designation (Example)

M **HQ** **14** **08**
(1) (2) (3) (4) (5)

(1) Main Block

(2) Type

(3) Joint connecting thread size (M)

Code	08	12	14	18	30
Size	M8×1.0	M12×1.0	M14×1.0	M18×1.0	M30×1.5

(4) Air port size (Inlet/Outlet)

• Tube dia. (øD)

Code	mm size (mm)						inch size (inch)			
	04	06	08	10	12	16	1/4	3/8	1/2	5/8
Tube O.D.	ø4	ø6	ø8	ø10	ø12	ø16	ø1/4	ø3/8	ø1/2	ø5/8

*Tube size ø1/2" and ø5/8" are only available in large bore type (Joint connecting thread size 30).

• Thread size (R)

Code	Metric thread		Taper pipe thread						National pipe thread tapered	
	M5	M6	01	02	03	04	06	08	N1	N2
Size	M5×0.8	M6×1.0	R1/8	R1/4	R3/8	R1/2	R3/4	R1	NPT1/8	NPT1/4

(5) Resin color (Optional) *Large bore type (Joint connecting thread size 30) is not available.

Code	No code	W
Body color	Standard (Black)	Light gray

Model Designation of Module Socket (Example)

*Joint connecting thread size is M18×1.

QMC20
(1)

(1) Resin color (Option)

Code	B	W
Body color	Standard (Black)	Light gray

Characteristics

Assuring the same flow rate as steel piping.

Outer dimensions are about a half of steel piping.

Easily detachable Coupling module is available.

Can be connected with Coupling of other Brand.

Added a large bore type that is ideal for high-flow air piping.

The applicable thread sizes are R3/4 and R1. Connectable to our vacuum generator VLM and large flow vacuum filter VFL.
Aluminum is used for metal parts and HNBR for rubber parts, making it lightweight and usable in low-concentration ozone environments.
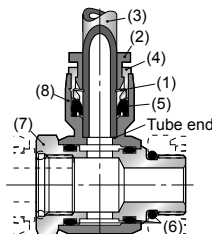
Can be combined freely.

Specifications

Fluid medium	Air
Max. operating pressure	1.0 MPa (For use with Module socket QMC20: 0.9MPa)
Max. vacuum	-100 kPa
Operating temp. range	0 to 60°C (no freezing)

Sectional drawing

Push-in Banjo: MHQ

No,	Parts	Material	
		Standard type	Large bore type
(1)	Lock claws	Stainless steel	
(2)	Release-ring	POM	
(3)	Tube	Polyurethane, Nylon, etc.	
(4)	Guide ring	Nickel-plated brass	
(5)	Elastic sleeve	NBR	HNBR
(6)	O-ring	NBR	HNBR
(7)	Metallic body	Nickel-plated brass	Aluminum (anodized)
(8)	Resin body	PBT	

Assembly Procedure

Straight Banjo for Air outlet port extension: MHS
Elbow block for Air inlet port: MLB
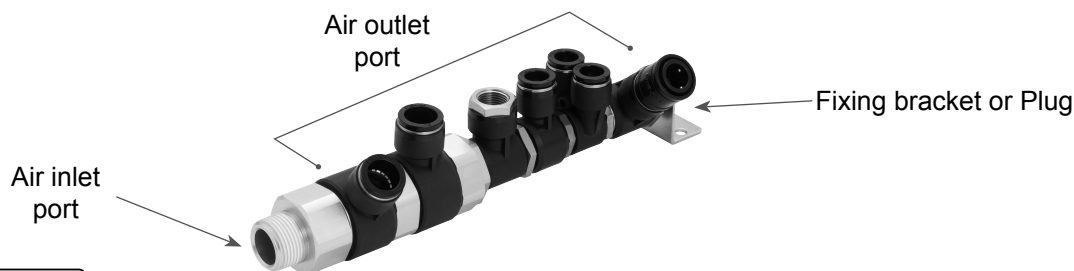Taper Banjo for Air outlet port: MHT
Tube
Plug: MPG
Push-in Banjo for Air outlet port: MHQ
Coupling module for Air outlet port: QMC20
Plug: MPG

● The metric threads "M" shown in photos in the model code list connect Main Blocks to each other. Therefore, any main blocks of the same thread size can be combined freely. (See combinations example below)
· Air inlet port: MBA, MLB, MBC, MST, MKR
· Air outlet port: MHQ, MHB, MHT, QMC20
· Plug: MPG, MCP
· In case two or more rows of air outlet ports are required: MHS
· In case thread sizes are different: MBB
· In case of connecting female thread to each other: MBN
· Fixing or securing bracket for Main block: MZB

Air outlet port

Air inlet port

Fixing bracket or Plug

RoHS2 (2011/65/EU+EU2015/863) compliant

Air inlet port

Type	Model code MBA M R
Bush A **MBA**	MBA0801
	MBA1201
	MBA1202
	MBA1203
	MBA1402
	MBA1403
	MBA1404
	MBA1803
	MBA1804
	MBA3006
	MBA3008
	MBA12N2
	MBA14N2

Type	Model code MLB M R
Elbow **MLB**	MLB0801
	MLB1201
	MLB1202
	MLB1402
	MLB1403
	MLB1404
	MLB1803
	MLB1804

Type	Model code MKR M øD⑤
Bulkhead Reducer **MKR**	MKR0804⑤
	MKR0806⑤
	MKR1206⑤
	MKR1208⑤
	MKR1210⑤
	MKR1408⑤
	MKR1410⑤
	MKR1412⑤
	MKR1812⑤

Type	Model code MBC M Rc
Bush C **MBC**	MBC08M5
	MBC12M6
	MBC1401
	MBC1802

Type	Model code MST M Rc
Socket **MST**	MST0801
	MST1202
	MST1403
	MST1804

Air outlet port

Type	Model code MHQ M øD⑤
Push-in Banjo **MHQ** øD	MHQ0804⑤
	MHQ0806⑤
	MHQ1206⑤
	MHQ1208⑤
	MHQ1408⑤
	MHQ1410⑤
	MHQ1412⑤
	MHQ1812⑤
	MHQ1816⑤
	MHQ3012
	MHQ3016
	MHQ30$\frac{1}{2}$
	MHQ30$\frac{5}{8}$
	MHQ12-$\frac{1}{4}$
	MHQ14-$\frac{3}{8}$
	MHQ14-$\frac{1}{2}$

Type	Model code MHB M øD⑤
Double Push-in Banjo **MHB** øD	MHB1408⑤
	MHB1410⑤
	MHB1812⑤
	MHB12-$\frac{1}{4}$

Type	Model code MHT M Rc⑤
Taper Banjo **MHT** Rc	MHT08M5⑤
	MHT08M6⑤
	MHT0801⑤
	MHT12M6⑤
	MHT1201⑤
	MHT1401⑤
	MHT1402⑤
	MHT1802⑤
	MHT1803⑤
	MHT12N1

Type	Model code QMC
Module Socket **QMC**	QMC20①

*Joint connecting thread size is M18×1.
*For the plug, see "Light Coupling 20 Series" (page 82).

To make two or more air outlet port rows

Type	Model code MHS M1 M2⑤
Straight Banjo **MHS** M2 M1	MHS1208⑤
	MHS1212⑤
	MHS1412⑤
	MHS1414⑤
	MHS1814⑤
	MHS1818⑤

For assembly thread size conversion

Type	Model code MBB M1 M2
Bush B **MBB** M2 M1	MBB1208
	MBB1412
	MBB1814
	MBB3018

For female thread connection to each other

Type	Model code MBN M1 M2
Union Stem **MBN** M2 M1	MBN0808
	MBN1212
	MBN1414
	MBN1818

Fixing bracket

Type	Model code MZB øA	Applicable models
Bracket **MZB** øA	MZB06	MPG, MCP
	MZB12	MKR0804
	MZB14	MKR□06
	MZB16	MKR□08
	MZB20	MKR□10
	MZB22	MKR□12

Type	Model code MZB
Bracket **MZB**	MZB061B
	MZB062B
	MZB161B
	MZB162B

*MZB061B, 062B, 161B and 162B are for MPG and MCP.

Plug

Type
Plug **MPG** M

Model code MPG M
MPG08
MPG12
MPG14
MPG18
MPG30

Type
Cap **MCP** M

Model code MCP M
MCP08
MCP12
MCP14
MCP18

Assembly Tools

Assembling wrench set

Model code
Assembling wrench set

CAD data is available at PISCO website.

Packaging specifications
1 pc. /bag

Standard Optional

Code	⑤(*¹) : -W
Specifications	Light gray (Fill in ⑤ with "-W".)

*1. ① for QMC
*2. Light gray spec. is not available for Large bore type (Joint connecting thread size 30).

Special product Optional (details ▶ page 893)
· Seal rubber material optional: FKM, EPDM or HNBR.
· Release-ring color change (Red)
▶ Contact us for the price.
*Large bore type (Joint connecting thread size 30) is not available.

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Make to Order Production

Order Production Index

Based on the standard products, "Special specification option" on parts for matching operating environment or "Special appearance option" for matching a color for operating environment can be selected and ordered by just adding prearranged extension code of options.

*PISCO welcomes an inquiry of custom-made product, which is not listed in this catalog. Please feel free to contact nearest PISCO office.

PISCO flexibly corresponds to non standard products that meet the needs of our customers.

Visit PISCO web site for video about Non-standard products.
https://www.pisco.co.jp/en/product/special/

Tube penetration type
Tube Fitting

ø8
ø6
ø4
Tube Fitting unequal
port combinations
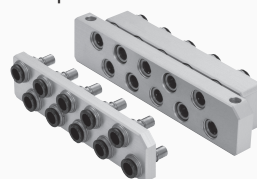
Multiple Coupling

Bulk Packaging (Tube Fitting,
Control, Vacuum Pad)

Make to Order Production

G thread spec.

mm

G

Fittings with mm size tube diameter and parallel pipe thread are available.
Contact us for inquiry.

● Applicable model

Fitting	Tube Fitting, Tube Fitting Mini

Inch NPT spec.

Inch

NPT

● Applicable model

Fitting	Tube Fitting, Tube Fitting Mini, Die Temperature Control Fitting, Rotary Joint, High Rotary Joint, Connector, Light Coupling
Control	Speed Controller, Speed Controller Large-flow type, Orifice Flow Speed Controller, Throttle (Needle) Valve, Quick Exhaust Valve, Orifice Fitting, Pressure Regulator Push-lock type, Pressure Controller, Check Valve, Pressure Gauge
Valve	Change Valve, Hand Valve, Ball Valve, Mechanical Valve

Inch・NPT仕様

PISCO
PNEUMATIC EQUIPMENT

Special options

Body color
Release-ring color
Seal rubber material/Lubrication
Sealock coating
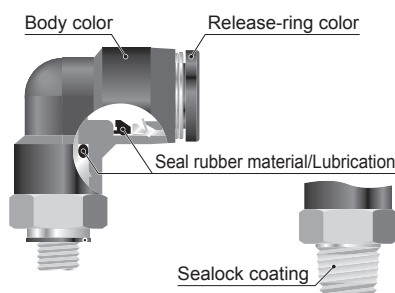
▶ Color option
Light-gray color option for resin body and release-ring.
▶ Seal rubber material option
Seal Rubber Selection: FKM, EPDM or HNBR.
▶ Oil-free option
Assembled without intentional use of oil, oil contamination into fluid medium can be prevented.
▶ ~~Non-purple option~~
~~Restraining generation of Cu ion or F ion from the product.~~
~~*With this option, Check Valve and Stop Fitting, etc. do not have marking on the brass parts. Be careful when piping.~~
▶ Release-ring color option
Changeable to Red Color

> Non-purple spec. option will no longer be available after March 31, 2025. Please see "Discontinuation notice of Non-purple spec. option" on the last page.

Model Designation (Example)

PL6-01 (1) **W** (2) **-F** (3) **-D** (4) (5)

(1) Model code (See the next page for available products.)

(2) Body color (Resin body color)

Code	W	No code
Color	Light gray	Standard

*When light-gray (W) is selected for body color, the metric (mm) size release-ring color is light-gray even for combination with any other options (except when red release-ring is specified). The color of release-ring of inch tube dia. is always white.

(3) Seal rubber material

Code	−F	−E	−HN	No code
Material	FKM	EPDM (Oil-free)	HNBR	Standard seal rubber

*1. For FKM (-F) specification, the color of metric (mm) size release-ring is brown, while inch tube dia. is white. FKM (-F) specification is not available with non-purple (-P) specification.
*2. For EPDM (-E) specification, the product is assembled as oil-free specification. The color of metric (mm) release-ring is yellow.
*3. EPDM (-E) specification can not be selected for the products with M3 or M6 threads or with inch tube dia.

(4) Lubrication

Code	−D	~~−P~~	No code
Option	Oil-free	~~Non-purple~~	Standard

> Non-purple spec. option will no longer be available after March 31, 2025. Please see "Discontinuation notice of Non-purple spec. option" on the last page.

*1. The metric (mm) size release-ring color of oil-free (-D) specification is yellow, while inch tube dia. is white.
*2. The product with oil-free (-D) specification is assembled without intentional use of lubrication in standard process. Therefore the problem of reducing airtightness or increasing frictions of rubber parts may be resulted.
*3. ~~Non-purple (-P) option is not available with seal rubber material FKM. No Sealock coating for Non-purple option.~~

(5) Release-ring color

Code	−RR	No code
Color	Red	Standard

Reference Chart of Special Options

○: Available, ×: Not available

Product series	Standard specification						Special specification						
	Body color and Packaging/ Cleaning option	Resin body color	Release-ring color	Seal rubber material	Lubrication	Thread sealing	(1) Body color Light gray **W**[*1]	(2) Seal rubber material FKM **-F**[*2]	EPDM **-E**[*3]	HNBR **-HN**	(3) Lubrication Oil-free option **-D**[*4]	Non-purple **-F**[*2]	(4) Release-ring color Red **-RR**
Tube fitting	Standard	Black	Black	NBR	Turbin oil	Sealock coating	×	○[*5]	○	○	○		○
	Light gray	Light gray	Light gray				Standard spec.		○		○		
	Clean-room pkg.	Light gray	Light blue		Fluorine-based grease		×	○	○[*6]		○[*6]	×	×
	Light gray + Clean-room pkg.	Light gray	Light gray				Standard spec.		○		○		×
	Clean wash + Clean-room pkg.	Light gray	Light blue		Oil-free option		×	×	○[*6]		Standard spec.		○
Tube fitting Mini	Standard	Black	Black	NBR	Turbin oil	Sealock coating	×	○[*5,*10]	○[*10]	○[*10]	○	○	○
	Light gray	Light gray	Light gray				Standard spec.				○		
	Clean-room pkg.	Light gray	Light blue		Fluorine-based grease		×	○[*10]	○[*6,*10]		○[*6]	×	×
	Light gray + Clean-room pkg.	Light gray	Light gray				Standard spec.		○[*10]		○		
Tube Fitting SUS304	Standard	Black	Dark blue	FKM	Turbin oil	Sealock coating	×	Standard spec.	○[*7]	○	○[*7]	×	△[*17]
Tube Fitting Stainless SUS303 equivalent corrosivity	Standard	Black	Dark blue	HNBR	Turbin oil	Sealock coating	○	○	○[*7,*15]	Standard spec.	○[*7]	○	○
	Clean wash + Clean-room pkg.	Black	Dark blue		Oil-free option		×	×			Standard spec.		
Tube Fitting Anti-static	Standard	Black	Black	NBR	Turbin oil	Sealock coating	×	○	○[*8]	○	○[*8]	○	△[*17]
Tube fitting Brass	Standard	—	—	HNBR	Turbin oil	Sealock coating	×	—	×	Standard spec.	○	○	×
				FKM			Standard spec.				—		
Tube fitting Long	Standard	—	Black	NBR	Turbin oil	Sealock coating	×	○[*5]	○	○	○	○	○
Main block	Standard	Black	Black	NBR	Turbin oil	Sealock coating	×	○[*5]	○	○	△[*17]	×	○
	Light gray	Light gray	Light gray				Standard spec.						
Connector	Standard	Black	Black	NBR	Turbin oil	—	×	○[*5]	○	○	○	×	○
Speed controller[*14]	Standard	Black	Black	NBR	Turbin oil	Sealock coating	×	○[*13]	○[*10]	○[*10,*11]	△[*17]	○	○
	Light gray	Light gray	Light gray				Standard spec.	○[*10,*11,*12]				×	
	Clean-room pkg.	Light gray	Light blue		Fluorine-based grease		×		○[*6,*10]				×
	Light gray + Clean-room pkg.	Light gray	Light gray				Standard spec.		○[*10]				
Speed controller SUS303 equivalent corrosivity	Standard	Black	Dark blue	HNBR	Turbin oil	Sealock coating	○	○[*11,*12]	○[*7]	Standard spec.	△[*17]	○	○
Needle valve	Standard	Black	Black	NBR	Turbin oil	Sealock coating	×	○[*5,*12]	○	○	△[*17]	○	○
	Light gray	Light gray	Light gray				Standard spec.					×	
	Clean-room pkg.	Light gray	Light blue		Fluorine-based grease		×	○[*12]	○[*6]				×
	Light gray + Clean-room pkg.	Light gray	Light gray				Standard spec.		○				
Orifice fitting	Standard	Black	Black	NBR	Turbin oil	Sealock coating	○	○	○	○	○	○[*16]	○[*9]
Check valve (Metal type) Check valve (Resin type)	Standard	—	Black	NBR	Turbin oil	Sealock coating	×	○	×	×	△[*17]	○	○
		Light gray	Light gray				Standard spec.						
Check Valve for Low Operating Pressure	Standard	Light gray	Light gray	HNBR (Elastic sleeve)	Turbin oil	—	Standard spec.	○ (Elastic sleeve)	○ (Elastic sleeve)	Standard spec.	○	×	○
				FKM (Valve packing)			Standard spec.	Standard spec.	× (Valve packing)	× (Valve packing)			

*1. When light-gray (-W) is selected for body color, the release-ring color of metric (mm) tube dia. is light-gray even for combination with any other options, except when Red color (-RR) is selected. The color of release-ring of inch tube dia. Is always white.
*2. Non-purple (-P) option is not available with seal rubber material FKM.
*3. For EPDM (-E) specification of sealing material, the product is assembled as oil-free specification. The color of release-ring of metric (mm) tube size is yellow, except the combination with light-gray specification, which has light-gray release-ring. EPDM (-E) specification is not available for the products with M3 or M6 threads or inch tube dia.
*4. Release-ring color: Yellow (When with light-gray specification, the release-ring color is light-gray.)
*5. Release-ring color: Brown
*6. Release-ring color: Light-blue
*7. Release-ring color: Dark-blue
*8. Release-ring color: Black
*9. Release-ring color: Red is not available with body color Light-gray.
*10. Not available for Tube dia. ø1.8 mm and ø2 mm.
*11. Not available for Low cracking pressure type.
*12. Not available for the products with M3 thread.
*13. See *5, *10, *11 and *12.
*14. Applicable types: JSC, JSS and JSM for Standard series, JSC-H for High Flow series, JSC-L and JSS-L for Low Flow series, JKC and JKL for Constant Flow series.
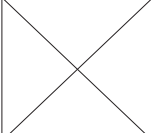*15. Gasket material for Metric thread : PPS
*16. Orifice bore 0.1 mm and 0.2 mm is not available.
*17. Contact us for inquiry.
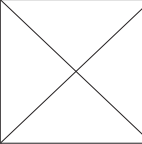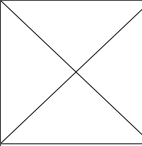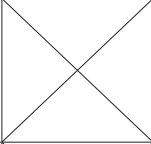
Non-purple spec. option will no longer be available after March 31, 2025. Please see "Discontinuation notice of Non-purple spec. option" on the last page.

*Consult PISCO for any inquiry of special-made product, which is not listed in this catalog.

Make to Order Production
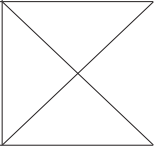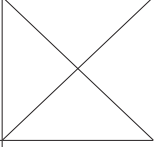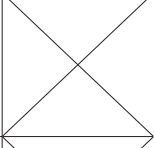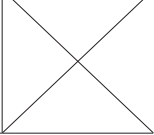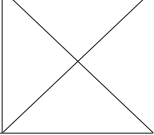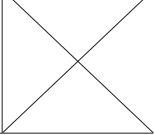
Reference Chart of Appearance Color Combination with Special Options (Fitting with Metal body)

Product series	Resin color or Option	Tube dia. size	Seal rubber material		Lubrication	Release-ring color
			−F	−E	−D	−RR
			FKM	EPDM	Oil-free option	Red
Tube fitting / Tube fitting Mini	−	mm size				
		inch size				
	Light gray	mm size				
	Clean-room pkg.	mm size				
		inch size				
	Light gray + Clean-room pkg.	mm size				
Tube fitting	Clean wash + Clean-room pkg.	mm size			Standard specification	
		inch size			Standard specification	
Tube Fitting SUS304	−	mm size	Standard specification			
Tube Fitting Stainless SUS303 equivalent corrosivity	−	mm size				
	Light gray	mm size				
	Clean wash + Clean-room pkg.	mm size			Standard specification	

Reference Chart of Appearance Color Combination with Special Options (Fitting with Resin body)

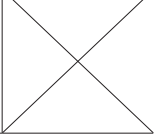| Product series	Resin color or Option	Tube dia. size		Seal rubber material		Lubrication	Release-ring color
				−F	−E	−D	−RR
				FKM	EPDM	Oil-free option	Red
Tube fitting Tube fitting Mini	−	mm size					
		inch size					
	Light gray	mm size					
		inch size					
	Clean-room pkg.	mm size					
		inch size					
	Light gray + Clean-room pkg.	mm size					
Tube fitting	Clean wash + Clean-room pkg.	mm size				Standard specification	
		inch size				Standard specification	
Tube Fitting SUS304	−	mm size		Standard specification			
Tube Fitting Stainless SUS303 equivalent corrosivity	−	mm size					
	Light gray	mm size					
	Clean wash + Clean-room pkg.	mm size				Standard specification	

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Make to Order Production

Reference Chart of Appearance Color Combination with Special Options (Controllers)

Product series	Resin color or Option	Tube dia. size		Seal rubber material		Release-ring color
				-F	**-E**	**-RR**
				FKM	EPDM	Red
Speed controller Throttle (needle) valve	–	mm size				
		inch size				✕
	Light gray	mm size				
		inch size				✕
	Clean-room pkg.	mm size				
		inch size				✕
	Light gray + Clean-room pkg.	mm size				✕

To: PISCO Distributers
Attn: To Whom It May Concern
Date: September 2024

Discontinuation notice of Non-purple spec. option

We would like to express our sincere gratitude for your continued patronage.
We would like to inform you that the Non-purple spec., which was available as Special specification option, is discontinued, and its manufacturing and sales will be terminated as of the end of March, 2025.
Thank you for your understanding.

Details

1. Discontinued option   Make-to-order option, Special specification: Non-purple spec.
   Model code (Ex.): PL6-01-**P**
   *"-P" at the end of the model code

   Non-purple spec: For the Non-purple spec., fluorine ions and copper ions, which were undesirable in the manufacturing line of cathode ray tube televisions, are suppressed by not applying Sealock (fluorine-based thread sealant) to the products. Thus, Non-purple spec. is equivalent to No-Sealock spec.

2. Reason   To update and expand applicable products by reviewing specifications to match the current situation.

3. Discontinuation Date   **March 31, 2025**

4. Replacement   Make-to-order option, Special specification: No-Sealock spec.
   Model code (Ex.): PL6-01-**NS**
   *"-NS" at the end of the model code
   *The list price remains the same.

		Thread sealant (Sealock)	Rubber material (Std. NBR)	Gasket material (Std. NBR)	Lubrication (Std. Turbine oil)	Marking	Applicable products
Discontinued	-P: Non-purple	Not applied	Fluorine materials are not selectable.			Not available	Some models of Tube Fitting
Replacement	**-NS: No-Sealock**	Not applied	Fluorine materials are **selectable**			**Available**	Tube Fitting, Speed Controller, Needle Valve, Check Valve, etc.

Please make inquiries to the following sales office.

Overseas Sales Department
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