

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)



(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.



(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.

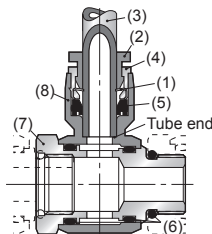


Specifications

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

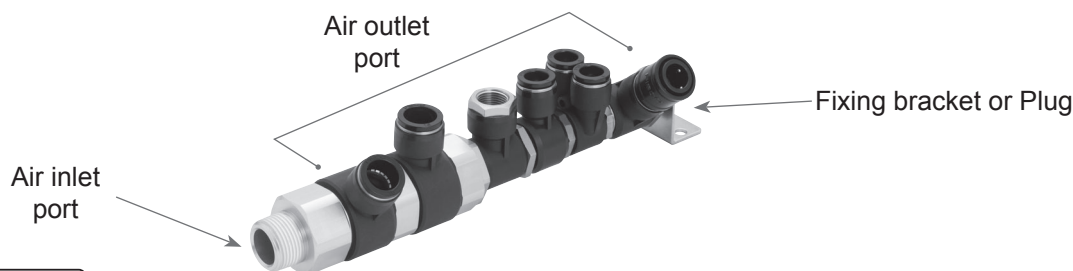
Plug: MPG

Push-in Banjo for Air outlet port: MHQ

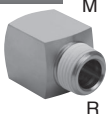
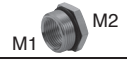
Coupling module for Air outlet port: QMC20

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



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

Air inlet port		Air outlet port		To make two or more air outlet port rows		Plug		
Type	Model code MBA M R	Type	Model code MHQ M øD ^[5]	Type	Model code MHS M1 M2 ^[5]	Type		
Bush A MBA 	MBA0801	Push-in Banjo MHQ 	MHQ0804 ^[5]	Straight Banjo MHS 	MHS1208 ^[5]	Plug MPG 		
	MBA1201		MHQ0806 ^[5]		MHS1212 ^[5]		Model code MPG M	
	MBA1202		MHQ1206 ^[5]		MHS1412 ^[5]		MPG08	
	MBA1203		MHQ1208 ^[5]		MHS1414 ^[5]		MPG12	
	MBA1402		MHQ1408 ^[5]		MHS1814 ^[5]		MPG14	
	MBA1403		MHQ1410 ^[5]		MHS1818 ^[5]		MPG18	
	MBA1404		MHQ1412 ^[5]				MPG30	
	MBA1803		MHQ1812 ^[5]		For assembly thread size conversion		Type	
	MBA1804		MHQ1816 ^[5]				Cap MCP 	
	MBA3006		MHQ3012				Model code MCP M	
	MBA3008		MHQ3016				MCP08	
	MBA12N2		MHQ30 ¹ / ₂				MCP12	
	MBA14N2		MHQ30 ³ / ₈				MCP14	
			MHQ12 ⁻¹ / ₄				MCP18	
	MHQ14 ⁻³ / ₈							
	MHQ14 ⁻¹ / ₂							
Type	Model code MLB M R	Type	Model code MHB M øD ^[5]	Type			Model code MBB M1 M2	Type
Elbow MLB 	MLB0801	Double Push-in Banjo MHB 	MHB1408 ^[5]	Bush B MBB 	MBB1208	For female thread connection to each other		
	MLB1201		MHB1410 ^[5]		MBB1412		MCP08	
	MLB1202		MHB1812 ^[5]		MBB1814		MCP12	
	MLB1402		MHB12 ⁻¹ / ₄		MBB3018		MCP14	
	MLB1403						MCP18	
	MLB1404							
	MLB1803							
	MLB1804							
Type	Model code MKR M øD ^[5]	Type	Model code MHT M Rc ^[5]	Type	Model code MBN M1 M2	Type		
Bulkhead Reducer MKR 	MKR0804 ^[5]	Taper Banjo MHT 	MHT08M5 ^[5]	Union Stem MBN 	MBN0808	Fixing bracket MZB 		
	MKR0806 ^[5]		MHT08M6 ^[5]		MBN1212			
	MKR1206 ^[5]		MHT0801 ^[5]		MBN1414			
	MKR1208 ^[5]		MHT12M6 ^[5]		MBN1818			
	MKR1210 ^[5]		MHT1201 ^[5]		Assembly Tools			
	MKR1408 ^[5]		MHT1401 ^[5]					
	MKR1410 ^[5]		MHT1402 ^[5]					
	MKR1412 ^[5]		MHT1802 ^[5]					
	MKR1812 ^[5]		MHT1803 ^[5]					
			MHT12N1					
Type	Model code MBC M Rc	Type	Model code QMC	Type	Model code MZB	Type		
Bush C MBC 	MBC08M5	Module Socket QMC 	QMC20 ^[1]	Bracket MZB 	MZB061B	Assembling wrench set 		
	MBC12M6				MZB062B			
	MBC1401				MZB161B			
	MBC1802				MZB162B			
Type	Model code MST M Rc	*Joint connecting thread size is M18×1. *For the plug, see "Light Coupling 20 Series" (page 82).		*MZB061B, 062B, 161B and 162B are for MPG and MCP.		Model code Assembling wrench set		
Socket MST 	MST0801							
	MST1202							
	MST1403							
	MST1804							

CAD data is available at PISCO website.

Packaging specifications
1 pc. /bag

Standard Optional

Code [5] (*) : -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)

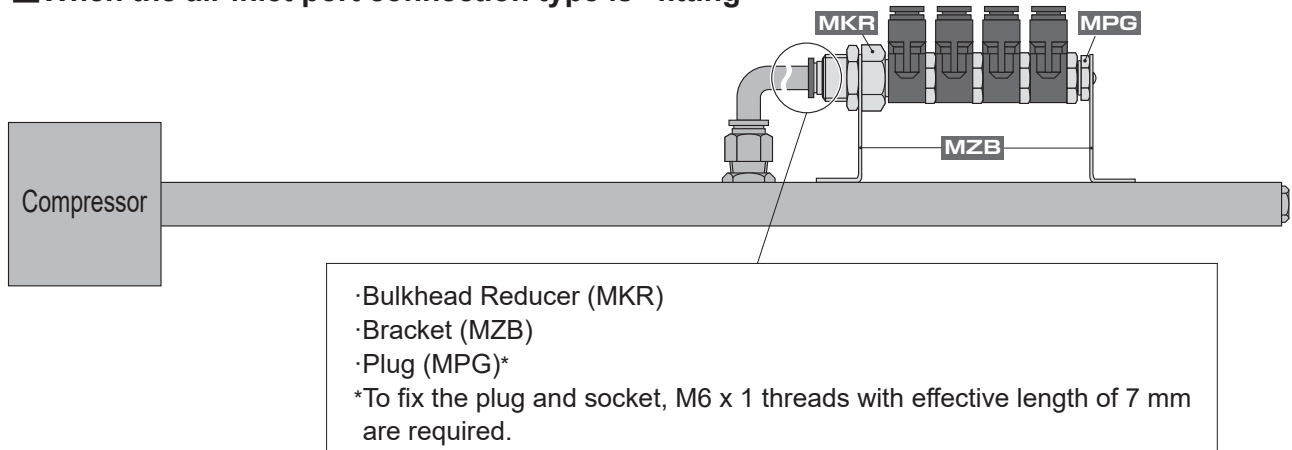
· Seal rubber material optional: FKM, EPDM or HNBR.
· Release-ring color change (Red)

▶ Contact us for the price.

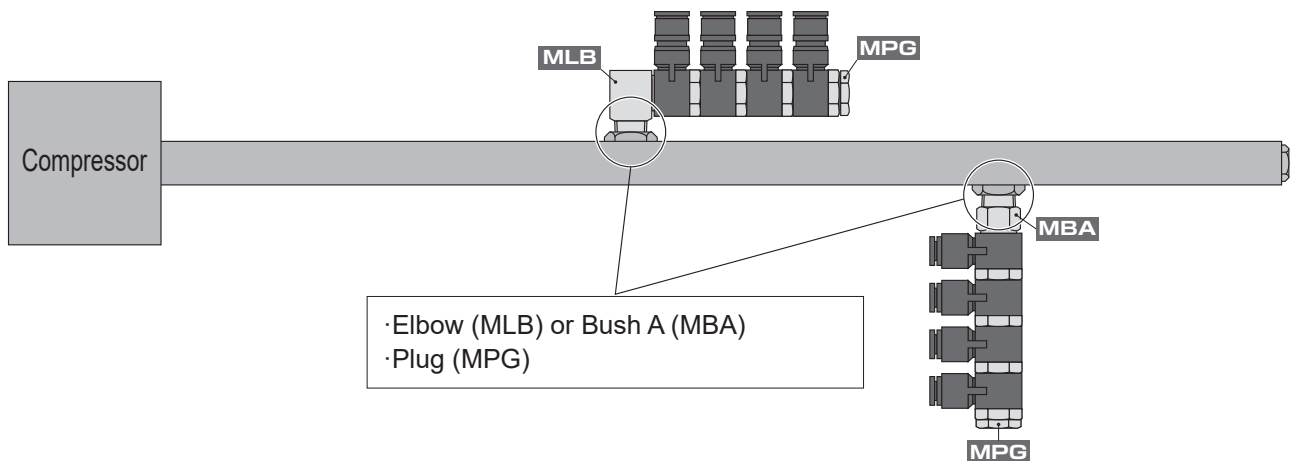
*Large bore type (Joint connecting thread size 30) is not available.

■ Piping examples

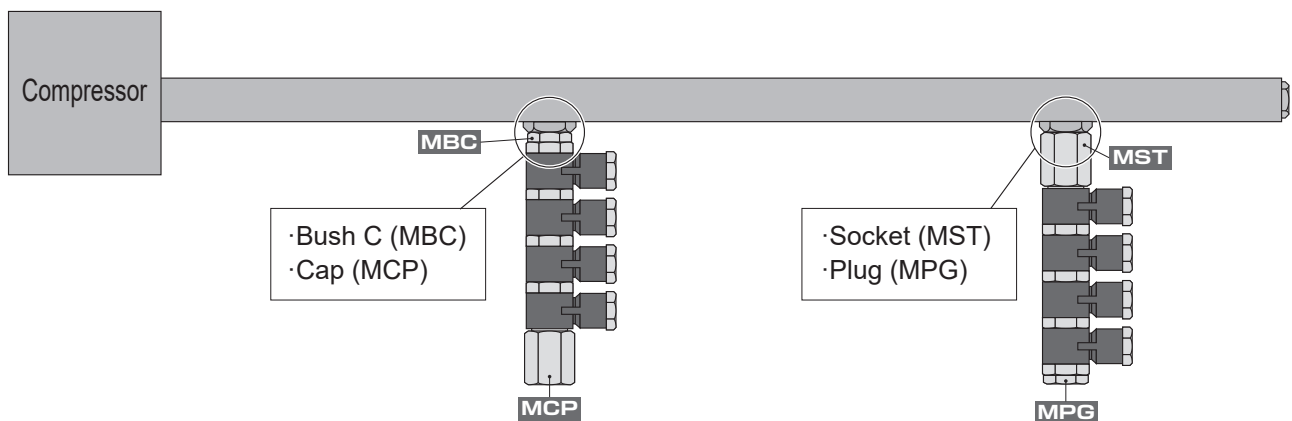
■ When the air inlet port connection type is “fitting”



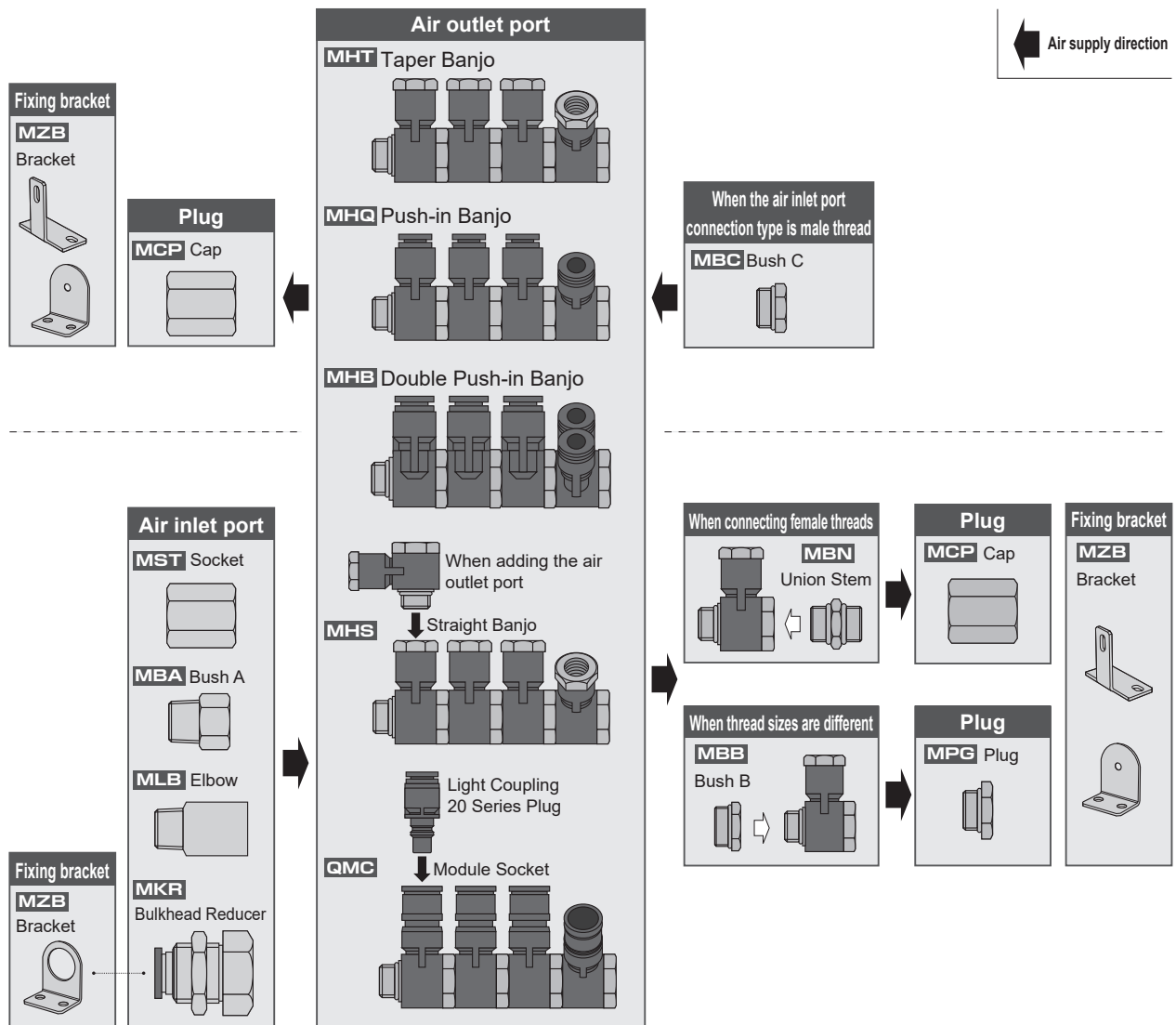
■ When the air inlet port connection type is “female thread”



■ When the air inlet port connection type is “male thread”



How to assemble



Combination is possible if the metric threads for assembly of each part are the same size.

- Air outlet port (4 types) Push-in Banjo (MHQ), Double Push-in Banjo (MHB)
Taper Banjo (MHT), Module Socket (QMC)
*It is possible to combine as many as needed
- Air inlet port (5 types) Bush A (MBA), Elbow (MLB), Bush C (MBC)
Socket (MST), Bulkhead Reducer (MKR)
- Plug (2 types) Plug (MPG), Cap (MCP)
- Thread size conversion for assembly Bush B (MBB)
- For connecting female threads Union Stem (MBN)
- Fixing bracket Bracket (MZB)

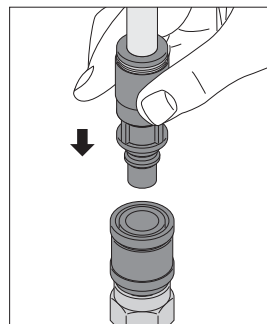
■ How to install and remove

How to install and remove Module Socket and Light Coupling Plug (20 Series)

(1) Plug installation

Light Coupling can be installed simply by inserting the plug into the socket, without pushing the release-sleeve.

Refer to “Detailed Safety Instructions” for Light Coupling on PISCO website (<https://www.pisco.co.jp/en/product/a/a25/>) when installing.



(2) Plug removal

To remove, push (1) the release-sleeve of the socket to open the lock ball, and pull out (2) the plug.

Refer to “Detailed Safety Instructions” for Light Coupling on PISCO website (<https://www.pisco.co.jp/en/product/a/a25/>) when removing.

