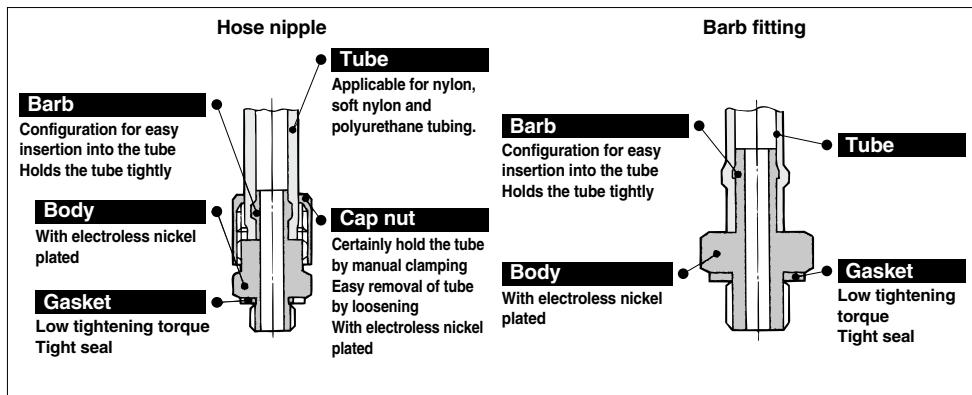


# Miniature Fittings Series M

Applicable Tubing:  $\varnothing 3.2$ ,  $\varnothing 4$ ,  $\varnothing 6$  Connection Thread: M3, M5, R  $\frac{1}{8}$



## Compact piping space

Hose nipple tubing connection/disconnection is simple while keeping a large retaining force.

## Line up various styles

For air connection in confined areas.

## Accepts many styles of plastic tubing

Hose nipple and hose elbow accepts nylon, soft nylon, and polyurethane tubing.



**Made to Order**

(Refer to page 154 for details.)

## Specifications

Applicable tubing material	Nylon	Soft nylon <sup>(1)</sup>		Polyurethane	Super PFA <sup>(2)</sup>	FEP <sup>(3)</sup>	Modified PTFE <sup>(4)</sup>
Applicable tubing O.D. / I.D.	M3	—	ø3.18/ø2.18	ø3.18/ø2 ø4/ø2.5	—	—	—
	M5, R 1/8	ø4/ø2.5 ø6/ø4		ø3.18/ø2 ø4/ø2.5 ø6/ø4	ø6/ø4	ø4/ø2.5 ø6/ø4	ø4/ø2.5 ø6/ø4
Fluid	Air, Water <sup>(5)</sup>						
Max. operating pressure (at 20°C)	1.5 MPa	1 MPa		0.8 MPa	1 MPa	1.5 MPa	1.4 MPa
Ambient and fluid temperature	-5 to 60°C; Water: 0 to 40°C (No freezing)						
Connection size	M3, M5, R 1/8				M5, R 1/8		
Thread	JIS B0205, Class 2 (Metric fine thread) JIS B0203 (Taper thread for piping)						

Note 1) Soft nylon tubing is not compatible with water.

Note 2), Note 3), Note 4) Compatible only with hose nipple type.

Note 5) Barb fitting, barb elbow, barb elbow (H) are not compatible with water.

## Principal Parts Material

Material	Body	C3604BD (Nipple M-3N, M-5N: Stainless steel 303)
	Gasket	Nylon 66: GF30%, Stainless steel 304: NBR (PVC for M3)

## Fitting Markings for Applicable Tubing Material (Barb fitting, Barb elbow, Barb elbow (H))









Tubing material determines the compatible fittings. (Refer to the table below.)







Connection	Tubing	Fitting marking for applicable tubing material		
		Barb fittings	Barb elbow	Barb elbow (H)
M3	Soft nylon tubing Polyurethane tubing		—	
R $\frac{1}{8}$ , M5	Nylon tubing			
	Soft nylon tubing Polyurethane tubing			

\* Body of M-5E, M-5ER, M-5M is not surface-treated.





















Electroless nickel plate treated is available as option -X2.












**Series M3, R 1/8**

Series	Model	Description	Application	Note
M3	M-3AU-3	Barb fitting for soft tube 	For soft nylon tubing For polyurethane tubing	ø3.18/2.18 x M3 ø3.18/2 x M3
	M-3AU-4	 P.150	For soft nylon and polyurethane tubing	ø4/2.5 x M3
	M-3ALU-3	Barb elbow for soft tubing 	For soft nylon tubing Body rotates at 360° around the stud axis	ø3.18/2.18 x M3 ø3.18/2 x M3
	M-3ALU-4	 P.150	For soft nylon and polyurethane tubing	ø4/2.5 x M3
	M-3SUL	Universal elbow 	Body rotates at 360° around the stud axis	M3 female x M3 male
	M-3UT	Universal tee 	Body rotates at 360° around the stud axis	M3 female x M3 female x M3 male
	M-3N	Nipple 	Fitting to workpiece and fitting to fitting connection	M3 male x M3 male
	M-3P	Plug 	Use to plug unused M3 port	
		P.150		

Series	Model	Description	Application	Note
R 1/8	M-01AN-4	Barb fitting for nylon tubing 	For nylon tubing	ø4/2.5 x R 1/8
	M-01AN-6	 P.150		ø6/4 x R 1/8
	M-01AU-4	Barb fitting for soft tubing 	For soft nylon and polyurethane tubing	ø4/2.5 x R 1/8
	M-01AU-6	 P.150		ø6/4 x R 1/8
	M-01H-4	Hose nipple 	For nylon, soft nylon and polyurethane tubing	ø4/2.5 x R 1/8
	M-01H-6	 P.150		ø6/4 x R 1/8

**Series M5**

Series	Model	Description	Application	Note
M5	M-5AN-4	Barb fitting for nylon tubing 	For nylon tubing	ø4/2.5 x M5
	M-5AN-6	 P.151		ø6/4 x M5
	M-5AU-3	Barb fitting for soft tubing 	For soft nylon tubing For polyurethane tubing	ø3.18/2.18 x M5 ø3.18/2 x M5
	M-5AU-4	 P.151	For soft nylon and polyurethane tubing	ø4/2.5 x M5 ø6/4 x M5
	M-5ALN-4	Barb elbow for nylon tubing 	• For nylon • Body rotates at 360° around the stud axis	ø4/2.5 x M5 ø6/4 x M5
	M-5ALN-6	 P.151		
	M-5ALU-3	Barb elbow for soft tubing 	For soft nylon tubing Body rotates at 360° around the stud axis	ø3.18/2.18 x M5 ø3.18/2 x M5
	M-5ALU-4	 P.151	For soft nylon and polyurethane tubing	ø4/2.5 x M5 ø6/4 x M5
	M-5ALHN-4	Barb elbow (H) for nylon tubing 	Body rotates at 360° around the stud axis For nylon tubing	ø4/2.5 x M5 ø6/4 x M5
	M-5ALHN-6	 P.151		
M5	M-5ALHU-3	Barb elbow (H) for soft tubing 	Body rotates at 360° around the stud axis For polyurethane tubing	ø3.18/2.18 x M5 ø3.18/2 x M5
	M-5ALHU-4	 P.151	For soft nylon and polyurethane tubing	ø4/2.5 x M5 ø6/4 x M5
	M-5ALHU-6	 P.151		
	M-5H-4	Hose nipple 	For nylon, soft nylon and polyurethane tubing	ø4/2.5 x M5 ø6/4 x M5
	M-5H-6	 P.151		
	M-5HL-4	Hose elbow 	• For nylon, soft nylon and polyurethane tubing • Body rotates at 360° around the stud axis	ø4/2.5 x M5 ø6/4 x M5
	M-5HL-6	 P.152		
	M-5HLH-4	Hose elbow (H) 	Body rotates at 360° around the stud axis	ø4/2.5 x M5 ø6/4 x M5
	M-5HLH-6	 P.152		
	M-5L	Elbow 	One-sided 90° elbow	M5 female x M5 female

Series	Model	Description	Application	Note
M5	M-5T	tee 	Both sides allow 90° connection	M5 female x M5 female
	M-5UL	Universal elbow 	Body rotates at 360° around the stud axis	M5 female x M5 male
	M-5UT	Universal tee 	Body rotates at 360° around the stud axis	M5 female x M5 female x M5 male
	M-5J	Extension fitting 	Solid piece moves fitting up from workpiece	M5 male x M5 female
	M-5N	Nipple 	Fitting to workpiece and fitting to fitting connection	M5 male x M5 male
	M-5UN	Universal nipple 	Body rotates at 360° around the stud axis	M5 male x M5 male PAT.
	M-5E	Bulkhead union 	Panel-mount connection	M5 female x M5 female
	M-5ER	Bulkhead reducer 	Reduction from Rc 1/8 to M5 including panel or bracket mounting	Rc 1/8 x M5 female
	M-5M	Manifold 	For reducing Rc 1/8 female be diverted to up to 9, M5 stations, including panel or bracket mounting	Rc 1/8 x M5 female (9 stations)
	M-5B	Bushing 	For reducing R 1/8 female to M5.	R 1/8 x M5 female
M5	M-5P	Plug 	Use to plug unused M5 port.	
		P.153		

**KQ2**  
**KQB2**  
**KS**  
**KX**  
**KM**  
**KF**  
**M**  
**H/DL**  
**L/L**  
**KC**  
**KK**  
**KK130**  
**DM**  
**KDM**  
**KB**  
**KR**  
**KA**  
**KQG2**  
**KG**  
**KFG2**  
**MS**  
**KKA**  
**KP**  
**LQ**  
**MQR**  
**T**