

Miniature Fittings

Series **M**

Features

- ➔ **Compact piping space.**
The hose nipple has a large holding force, allowing easy connection and removal.
- ➔ **A wide variety of models is available.**
Piping in the same direction is possible at different heights.
- ➔ **Hose nipple, Hose elbow.**
Hose nipples and hose elbow accept nylon, soft nylon and polyurethane tubing.



■ Applicable tubing O.D.: Metric Size
■ Connecting thread : M3, M5, R1/8

Specifications

Applicable tubing material		Nylon	Soft nylon		Polyurethane
Applicable tubing	M3	—	ø3.18/ø2.18	ø4/ø2.5	ø2, ø3.18/ø2, ø4/ø2.5
	M5-R1/8	ø4/ø2.5 ø6/ø4		ø4/ø2.5 ø6/ø4	ø2, ø3.18/ø2 ø4/ø2.5, ø6/ø4
Max. operating pressure (at 20C)		1.5MPa	1.0MPa		0.8MPa
Connection size		M3, M5, R1/8			
Thread		JIS B0209 Class 2 (Metric thread), JIS B0203 (Taper thread for piping)			



ø2 Miniature Fittings
Series M

Hose Nipple

Barb fittings

The tube allows easy tubing insertion as well as secure tubing holding.

Body

With electroless nickel plated

Gasket

Small tightening torque.
Secure sealing.

Tubing

Hose nipples and hose elbow accept nylon, soft nylon and polyurethane tubing.

Cap nut

Secure holding is achieved by manual tightening.
Easy disconnection of tubing by loosening.
Electroless nickel plated.

Barb Fittings

Barb fittings

The tube allows easy tubing insertion as well as secure tubing holding.

Body

With electroless nickel plated

Tubing

Gasket

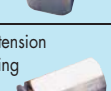
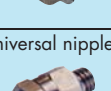
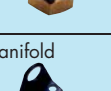
Small tightening torque.
Secure sealing.

PAT.

Miniature Fittings

Series M5

Description	Remark(s)	Model	Application
Barb fittings for nylon tubing 	ø4/2.5 X M5	M-5AN-4	To pipe nylon tubing.
	ø6/4 X M5	M-5AN-6	
Barb fittings for soft tubing 	ø2/1.2 X M5	M-5AU-2	To pipe polyurethane tubing.
	ø3.18/2.18 X M5	M-5AU-3	To pipe soft nylon tubing.
	ø3.18/2 X M5		To pipe polyurethane tubing.
	ø4/2.5 X M5	M-5AU-4	To pipe soft nylon, polyurethane tubing.
	ø6/4 X M5	M-5AU-6	
Barb elbow for nylon tubing 	ø4/2.5 X M5	M-5ALN-4	- To pipe nylon tubing - Body rotates 360° around the stud axis. Position can be fixed after alignment.
	ø6/4 X M5	M-5ALN-6	
Barb elbow for soft tubing 	ø2/1.2 X M5	M-5ALU-2	To pipe polyurethane tubing.
	ø3.18/2.18 X M5	M-5ALU-3	To pipe soft nylon tubing.
	ø3.18/2 X M5		To pipe polyurethane tubing.
	ø4/2.5 X M5	M-5ALU-4	Body rotates 360° around the stud axis. Position can be fixed after alignment. To pipe soft nylon, polyurethane tubing.
	ø6/4 X M5	M-5ALU-6	
Barb elbow for nylon tubing (H) 	ø4/2.5 X M5	M-5ALHN-4	- To pipe nylon tubing - Body rotates 360° around the stud axis. Position can be fixed after alignment.
	ø6/4 X M5	M-5ALHN-6	
Barb elbow for soft tubing (H) 	ø3.18/2.18 X M5	M-5ALHU-3	To pipe soft nylon tubing.
	ø3.18/2 X M5		To pipe polyurethane tubing.
	ø4/2.5 X M5	M-5ALHU-4	Body rotates 360° around the stud axis. Position can be fixed after alignment. To pipe soft nylon, polyurethane tubing.
	ø6/4 X M5	M-5ALHU-6	
Bushing 	R1/8 X M5 female	M-5B	Connection from R1/8 piping to M5 fittings.
Plug 		M-5P	To plug unused M5 port.

Description	Remark(s)	Model	Application
Hose nipple 	ø4/2.5 X M5	M-5H-4	To pipe nylon, soft nylon, polyurethane tubing.
	ø6/4 X M5	M-5H-6	
Hose elbow 	ø4/2.5 X M5	M-5HL-4	- To pipe nylon, soft nylon, polyurethane tubing. - Body rotates 360° around the stud axis. Position can be fixed after alignment.
	ø6/4 X M5	M-5HL-6	
Hose elbow (H) 	ø4/2.5 X M5	M-5HLH-4	
	ø6/4 X M5	M-5HLH-6	
Elbow 	M5 female X M5 female	M-5L	Perpendicular piping.
Tee 	M5 female X M5 female X M5 female	M-5T	Perpendicular piping in both directions.
Universal elbow 	M5 female X M5 male	M-5UL	Body rotates 360° around the stud axis. Position can be fixed after alignment.
Universal tee 	M5 female X M5 female X M5 male	M-5UT	Body rotates 360° around the stud axis. Position can be fixed after alignment.
Extension fitting 	M5 male X M5 female	M-5J	For 3D piping to prevent interference between fittings.
Nipple 	M5 male X M5 male	M-5N	To connect fittings and equipment or to connect 2 fittings.
Universal nipple 	M5 male X M5 male PAT.	M-5UN	Body rotates 360° around the stud axis.
Bulkhead union 	M5 X M5 female – female	M-5E	Panel mount connection
Bulkhead Reducer 	Rc1/8 X M5 female	M-5ER	Reduction from Rc1/8 to M5. Panel mounting is possible.
Manifold 	Rc1/8 X M5 female (9 port)	M-5M	Rc1/8 can be diverted in up to nine M5 stations. Panel mounting is possible.
Gasket 	Material: SUS 304	M-5G1	M5 thread label
Gasket (H) 	Material: Aluminium	M-5GH	M-5ALm-6 M-5ALHm-6 M-5HL-4, 6 M-5HLH-4, 6.

Miniature Fittings

Series M3

Description	Remark(s)	Model	Application	
	ø2/1.2 X M3	M-3AU-2	To pipe polyurethane tubing.	
	ø3.18/2.18 X M3	M-3AU-3	To pipe soft nylon tubing.	
	ø3.18/2 X M3		To pipe polyurethane tubing.	
	ø4/2.5 X M3	M-3AU-4	To pipe soft nylon, polyurethane tubing.	
	ø2/1.2 X M3	M-3ALU-2	Body rotates 360° around the stud axis. Position can be fixed after alignment.	To pipe polyurethane tubing.
	ø3.18/2.18 X M3	M-3ALU-3		To pipe soft nylon tubing.
	ø3.18/2 X M3			To pipe polyurethane tubing.
	ø4/2.5 X M3	M-3ALU-4		To pipe soft nylon, polyurethane tubing.
 Universal elbow	M3 female X M3 male	M-3UL	Body rotates 360° around the stud axis. Position can be fixed after alignment.	
 Universal tee	M3 female X M3 female X M3 male	M-3UT	Body rotates 360° around the stud axis. Position can be fixed after alignment.	
 Nipple	M3 male X M3 male	M-3N	To connect fittings and equipment or to connect 2 fittings.	
 Plug		M-3P	To plug unused M3 port.	
 Gasket		M-3G	Sealant (Thread portion)	

Series R1/8

Description	Remark(s)	Model	Application
	ø4/2.5 X R1/8	M-01AN-4	To pipe nylon tubing.
	ø6/4 X R1/8	M-01AN-6	
	ø4/2.5 X R1/8	M-01AU-4	To pipe soft nylon, polyurethane tubing.
	ø6/4 X R1/8	M-01AU-6	
	ø4/2.5 X R1/8	M-01H-4	To pipe nylon, soft nylon, polyurethane tubing.
	ø6/4 X R1/8	M-01H-6	
	ø2/1.2 X 3.2 mm one-touch	M-32F-2	To pipe polyurethane tubing.
	ø2/1.2 X 4 mm one-touch	M-04F-2	
	ø2/1.2 X 3.2 mm	M-32R-2	To pipe polyurethane tubing.
	ø2/1.2 X 4 mm	M-04R-2	