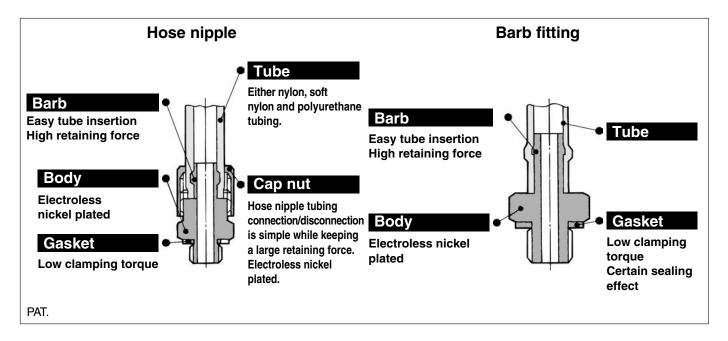
Miniature Fittings M3, M5, R(PT)1/8

Series M



Simple Connection/ Disconnection

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

Miniature Size

For air connection in confined areas.

Accepts Many Styles of Plastic Tubing

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



Specifications

Applicable tub	e material	Nylon	Soft i	nylon	Polyurethane			
Applicable	М3	_		ø4/ø2.5	ø3.18/ø2, ø4/ø2.5			
tube dia.	M5-R(PT)	ø4/ø2.5	ø3.18/ø2.18	ø4/ø2.5	ø3.18/ø2,			
tube dia.	1/8	ø6/ø4		ø6/ø4	ø4/ø2.5, ø6/ø4			
Max. operating p	Max. operating pressure (at 20°C)		1.00	ЛРа	0.8MPa			
Port size			M3, M5, R(PT) 1/8					
Thread		JIS B0209 Class 2 (N	Metric coarse thr	coarse thread), JIS B0203 (Taper pipe thread)				
•								

Component Materials

Makadal	Body	C3604BD (Nipple M-3N, M-5N: Stainless steel (SUS 303))
Material	Gasket	PVC, Nylon66: GF30%

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

Tube material determines the compatible fittings. (See diagram below.)

Connection	Tube	Fitting mark	ing for applicable t	ube material	Surface
Connection	Tube	Barb fitting	Barb elbow	Barb elbow (H)	treatment (Color)
М3	Soft nylon tube Polyurethane tube		—		Electroless nickel plated (Silver color)
R(PT) ¹ /8,	Nylon tube				Electroless nickel plated (Silver color)
M5	Soft nylon tube Polyurethane tube	Marking	Marking	Marking	Electroless nickel plated (Black color) [Except stud]

Series M3, R(PT)1/8

Series M5

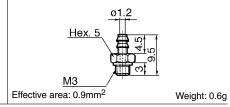
Series/Model	Style	Appli	cation	Note	Se	ries/Model	Style	Appli	cation	Note	Series/Model	Style	Application	Note
M-3AU-3	Barb fitting	For sof tube For pol	t nylon	ø3.18/2.18 X M3 ø3.18/2		M-5AN-4	Barb fitting	For ny	rlon	ø4/2.5 X M3	M-5T	Tee	Both sides allows 90°	M5 female X M5 female
M-3AU-4		thane t	ube t nylon	X M3 ø4/2.5		M-5AN-6	P.7-56	tube		ø6/4 X M5		P.7-57	connection	X M5 female
	P.7-55 Barb fitting	and po thane t		X M3 ø3.18/2.18		M-5AU-3	Barb fitting	For sof tube For po	ft nylon lyure-	ø3.18/2.18 X M5 ø3.18/2	M-5UL	Universal elbow	Body rotates at 360° around the	M5 female X M5
M-3ALU-3		Body	tube	X M3 ø3.18/2		M-5AU-4		thane t	tube ft nylon	X M5 ø4/2.5		P.7-57 Universal tee	stud axis	male
		rotates 360° around the stud	urethane	X M3		M-5AU-6	P.7-56	and po	lyure-	Ø6/4 X M5	M-5UT	Oniversal tee	Body rotates at 360°	M5 female X M5 female
M-3ALU-4		axis.	nylon and poly- urethane	ø4/2.5 X M3		M-5ALN-4	Barb elbow		rlon tube	ø4/2.5 X M5		P.7-57	around the stud axis	X M5 male
	Universal elbow	Body r		M3 female		M-5ALN-6	P.7-56	●Body i at 360 aroun		ø6/4 X M5	M-5J	Extention fitting	Solid piece moves fitting up from	M5 male X M5 female
M-3UL	P.7-55	around stud ax	l the	X M3 male		M-5ALU-3	Barb elbow	Body	soft nylon	ø3.18/2.18 X M5		P.7-57 Nipple	workpiece Fitting to	Terriale
М3	Universal tee	Body r	otates	M3 female				around	urethane	ø3.18/2 X M5 ø4/2.5	M-5N		workpiece and fitting -	M5 male
M-3UT	Ĵ	at 360° around stud at	I the	X M3 female X M3 male		M-5ALU-4 M-5ALU-6		the stud axis	soft nylon and poly- urethane	X M5		P.7-57 Union nipple	fitting connection	
	P.7-55 Nipple	Fitting to				M-5ALHN-4	P.7-56 Barb elbow (H)	rotates		X M5 ø4/2.5	M-5UN		Body rotates at 360°	M5 male X M5 male
M-3N		"	connec-	M3 male X M3 male	M5	M-5ALHN-6	L	at 360° around the stud	For nylon tube	ø6/4	M5	P.7-57 Bulkhead	around the stud axis	PAT
	P.7-55 Plug	tion pos	unused			M-5ALHU-3	P.7-56 Barb elbow (H)	axis Bodv	soft nylon	X M5 ø3.18/2.18 X M5	M-5E	union	Panel mount connection	M5 female X M5 female
M-3P	P.7-55	M3 port				M-5ALHU-4	9	rotates at 360° around the stud	poly- urethane soft nylon and	ø4/2.5	M SED	P.7-57 Bulkhead reducer	Reduction from Rc(PT)1/8	Rc(PT)1/8
M-3G	Gasket	To sea	l M3			M-5ALHU-6	P.7-56	axis	poly- urethane	ø6/4 X M5	M-5ER	P.7-58	to M5 and includes panel mounting	X M5 female
	P.7-55	thread				M-5H-4	Hose nipple	For nylon, a	on, soft and poly-	ø4/2.5 X M5	M-5M	Manifold	Rc(PT)1/8 can be diverted in up to 9, M5 stations,	Rc(PT)1/8 X M5
Series/Model	Style	Appli	cation	Note		M-5H-6	P.7-56	urethan	e tube	ø6/4 X M5		P.7-58	includes panel or bracket mounting	female (9 stations)
M-01AN-4	Barb fitting	For nyl	on tube	ø4/2.5 X R(PT)1/8		M-5HL-4	Hose elbow	●For ny	, ,	ø4/2.5 X M5	M-5B	Reducer bushing	For reducing Rc(PT)1/8 female to	Rc(PT)1/8 X M5
M-01AN-6	P.7-55			ø6/4 X R(PT)1/8		M-5HL-6	P.7-57	polyui tube	ylon, and rethane	ø6/4 X M5		P.7-58 Plug	M5 female	female
R (PT)	Barb fitting	For soft	nylon urethane	ø4/2.5 X R(PT)1/8		M-5HLH-4	Hose elbow (H)	at 36	nd the	ø4/2.5 X M5	M-5P	P.7-58	To plug unused M5 port	
^{1/8} M-01AU-6	P.7-55 Hose nipple	tube		ø6/4 X R(PT)1/8		M-5HLH-6	P.7-57 Elbow	Studio	unio	ø6/4 X M5	M-5G1	Gasket	To seal M5 thread	Material:
M-01H-4	Tiose nipple		nd poly-	ø4/2.5 X R(PT)1/8		M-5L	LIDOW	One-sidelbow	ded 90°	M5 female X M5		P.7-58 Gasket (H)	M-5AL□-6 M-5ALH□-6	Material:
M-01H-6	P.7-55	urethan	e tube	ø6/4 X R(PT)1/8			P.7-57	GIDOW		female	M-5GH	P.7-58	M-5HL-4, 6 M-5HLH-4, 6	Nylon66 GF30%



Series M3

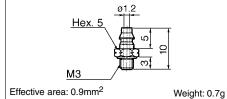
Barb fitting for soft tube: M-3AU-3





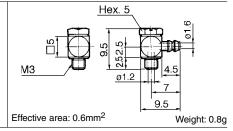
Barb fitting for soft tube: M-3AU-4





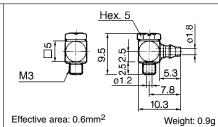
Barb elbow for soft tube: M-3ALU-3





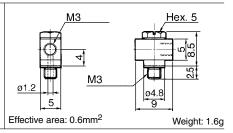
Barb elbow for soft tube: M-3ALU-4





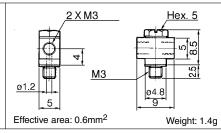
Universal elbow: M-3UL





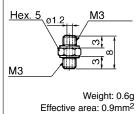
Universal tee: M-3UT





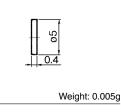
Nipple: M-3N



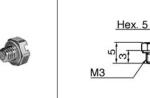


Gasket: M-3G





Plug: M-3P

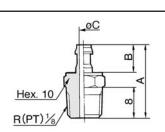


Series R(PT)1/8

Barb fitting for nylon tube, soft tube: M-01A□-4, -6



Tube	Part No.	Α	В	øС	Effective area (mm²)	Weight (g)
Nylon tube	M-01AN-4	16	5	1.8	2.1	6.4
Nylon tube	M-01AN-6	18	7	2.5	4.0	6.6
Soft tube	M-01AU-4	16	5	1.8	2.1	6.5
Soft tube	M-01AU-6	18	7	2.5	4.0	6.7

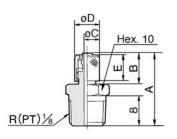


Weight: 0.5g

Hose nipple: M-01H-4, -6



Part No.	Α	В	øС	øD	E	Effective area (mm²)	Weight (g)	
M-01H-4	19.5	8.5	1.8	6.5	7	2.1	7.1	
M-01H-6	20.5	9.5	3	8.5	8	5.5	7.7	



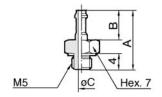
Miniature Fittings Series M

Series M5

Barb fitting for nylon tube: M-5AN-4, -6



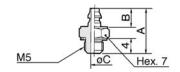
Part No.	Α	В	øС	Effective area (mm ²)	Weight (g)
M-5AN-4	12	5	1.8	2.1	1.6
M-5AN-6	14	8	2.5	4.0	1.7
•					



Barb fitting for soft tube: M-5AU-3, -4, -6



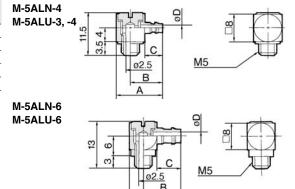
Part No.	Α	В	øС	Effective area (mm²)	Weight (g)
M-5AU-3	11.5	4.5	1.6	1.7	1.5
M-5AU-4	12	5	1.8	2.1	1.6
M-5AU-6	14	7	2.5	4.0	1.8



Barb elbow for nylon tube: M-5ALN-4, -6 Barb elbow for soft tube: M-5ALU-3, -4, -6



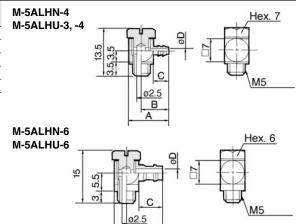
Part No.	Α	В	С	øD	area (mm ²)	(g)
M-5ALN-4	13	9	5	1.8	1.4	4.0
M-5ALN-6	15	11	7	2.5	2.4	4.4
M-5ALU-3	12.5	8.5	4.5	1.6	1.1	4.0
M-5ALU-4	13.3	9.3	5	1.8	1.4	4.1
M-5ALU-6	15.3	11.3	7	2.5	2.4	4.5



Barb elbow for nylon tube: M-5ALHN-4, -6 Barb elbow for soft tube: M-5ALHU-3, -4, -6



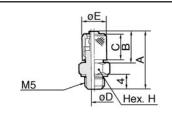
Part No.	Α	В	С	øD	Effective area (mm²)	Weight (g)
M-5ALHN-4	12	8.5	5	1.8	1.4	3.2
M-5ALHN-6	14	10.5	7	2.5	2.4	3.7
M-5ALHU-3	11.5	8	4.5	1.6	1.1	3.2
M-5ALHU-4	12.3	8.8	5	1.8	1.4	3.3
M-5ALHU-6	14.3	10.8	7	2.5	2.4	3.9



Hose nipple: M-5H-4, -6



Part No.	Α	В	С	øD	øΕ	Н	Effective area (mm²)	Weight (g)
M-5H-4	15.5	8.5	7	1.8	6.5	7	2.1	2.7
M-5H-6	16.5	9.5	8	2.5	8.5	8	4.0	3.9

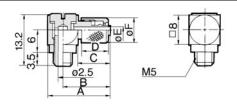


Series M5

Hose elbow: M-5HL-4, -6



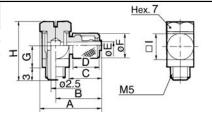
Part No.	Α	В	С	D	øΕ	øF	Effective area (mm²)	(g)
M-5HL-4	16.5	12.5	8.5	7	1.8	6.5	1.4	4.4
M-5HL-6	17.5	13.5	9.5	8	2.5	8.5	2.4	5.2



Hose elbow: M-5HLH-4, -6

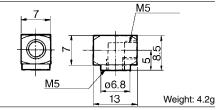


Part No.	Α	В	С	D	øΕ	øF	G	н	□I	Effective area (mm²)	Weight (g)
M-5HLH-4	15.5	12	8.5	7	1.8	6.5	5.5	15	7	1.4	4.5
M-5HLH-6	17.5	13.5	9.5	8	2.5	8.5	6	16	8	2.4	6.6



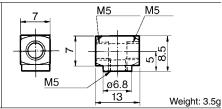
Elbow: M-5L





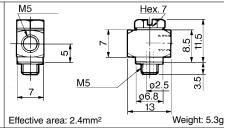
Tee: M-5T





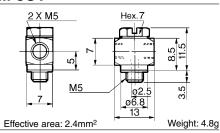
Universal elbow: M-5UL





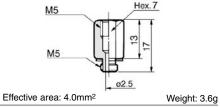
Universal tee: M-5UT





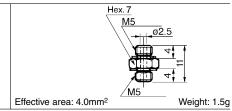
Extension fitting: M-5J





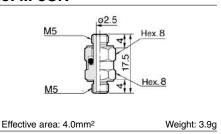
Nipple: M-5N





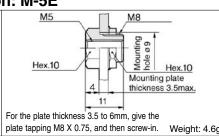
Universal nipple: M-5UN

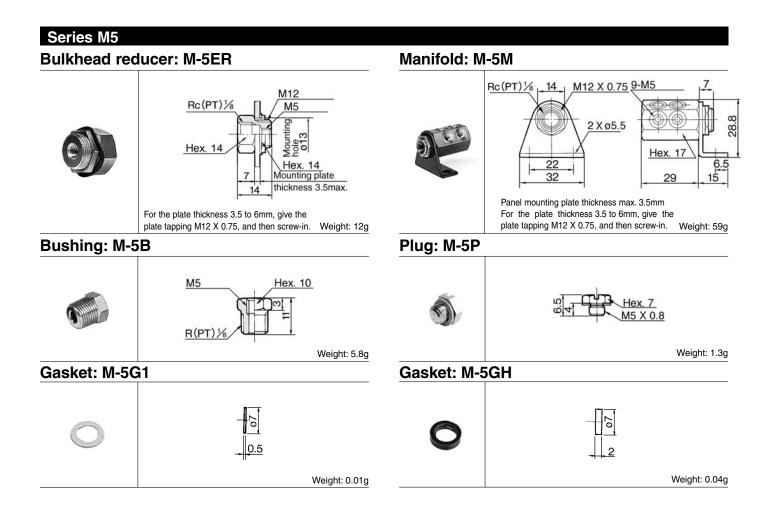




Bulkhead union: M-5E







A Precautions

Tightening of M3 or M5 thread

⚠ Caution

Tighten by hand, and give it an additional 1/4 rotation with wrench. (The additional rotation should be doubled to 1/2 when using the universal elbow, universal tee, etc. which have two gaskets.) If tightened too much, thread portion may be damaged and gasket may be deformed. This will cause air leakage. On the contrary, if tightening is not sufficient, thread may loosen causing air leakage.

Use of tubing with hose nipple

⚠ Caution

- ①Cut the tube perpendicularly to the tube axis to a little longer length than required length. (Use tube cutter "TK-1", "TK-2" or "TK-3".)
- 2 Pass the tubing through the cap nut.
- ③Push the tube until it comes to the end of the barb portion, or it may cause air leakage or hose releasing.
- (4) Tighten the cap nut firmly by hand on the fitting.

Use of tube with barb fitting

⚠ Caution

- ①Cut the tube perpendicularly to the tube axis with a little longer length than required length. (Use tube cutter "TK-1", "TK-2" or "TK-2")
- ②Push the tube in until it comes to the end of the barb portion, or it may cause air leakage or hose releasing.

