

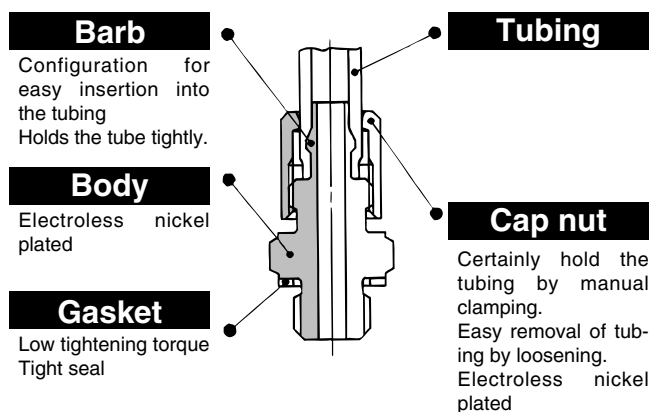
Series 10-M

Miniature fittings

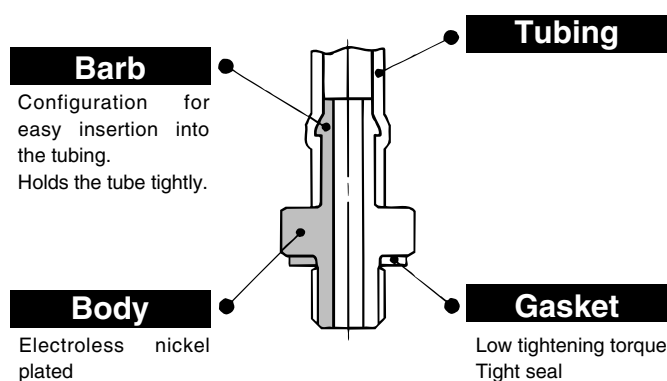
Construction



Hose nipple



Barb fitting



Specifications

Tubing material		Polyurethane
Applicable tubing	M3	ø3.18/ø2, ø4/ø2.5
	M5-R 1/8	ø3.18/ø2 ø4/ø2.5, ø6/ø4
Max. operating pressure		0.8MPa
Connection size		M3, M5, R1/8
Grease		Fluorine grease
Particle generation grade (Refer to front matter pages 13 to 22 for details.)		Grade 1

Principal parts materials

Material	Body	Electroless nickel plated C3604BD (Nipple M-3N, M-5N: Stainless steel 303)
	Gasket	Aluminum + NBR, Stainless steel 304 + NBR

Series M3, R 1/8

Series	Model	Description	Application	Note
M3	10-M-3AU-3	Barb fitting for soft tubing 	For piping polyurethane tubing	ø3.18/2 x M3
	10-M-3AU-4			ø4/2.5 x M3
	10-M-3ALU-3	Barb elbow for soft tubing 	Body rotates at 360° around the stud axis. For piping polyurethane tubing	ø3.18/2 x M3
	10-M-3ALU-4			ø4/2.5 x M3
	10-M-3UL	Universal elbow 	Body rotates at 360° around the stud axis.	M3 female x M3 male
	10-M-3UT	Universal tee 	Body rotates at 360° around the stud axis.	M3 female x M3 female x M3 male
	10-M-3N	Nipple 	Connection for fitting to workpiece and fitting to fitting	M3 male x M3 male
	10-M-3P	Plug 	Use to plug unused M3 port	
	10-M-3G	Gasket 	To seal M3 thread	Material: Stainless steel 304 + NBR

Series	Model	Description	Application	Note
R 1/8	10-M-01AU-4	Barb fitting for polyurethane tubing 	For polyurethane tubing	ø4/2.5 x R 1/8
	10-M-01AU-6			ø6/4 x R 1/8
	10-M-01H-4	Hose nipple 		ø4/2.5 x R 1/8
	10-M-01H-6			ø6/4 x R 1/8

Series M5

Series	Model	Description	Application	Note
M5	10-M-5AU-3	Barb fitting for soft tubing 	For piping polyurethane tubing	ø3.18/2 x M5
	10-M-5AU-4			ø4/2.5 x M5
	10-M-5AU-6			ø6/4 x M5
	10-M-5ALU-3	Barb elbow for soft tubing 	Body rotates at 360° around the stud axis. For piping polyurethane tubing	ø3.18/2 x M5
	10-M-5ALU-4			ø4/2.5 x M5
	10-M-5ALU-6			ø6/4 x M5
	10-M-5ALHU-3	Barb elbow (H) for soft tubing 	Body rotates at 360° around the stud axis. For piping polyurethane tubing	ø3.18/2 x M5
	10-M-5ALHU-4			ø4/2.5 x M5
	10-M-5ALHU-6			ø6/4 x M5
	10-M-5H-4	Hose nipple 	For piping polyurethane tubing	ø4/2.5 x M5
	10-M-5H-6			ø6/4 x M5
	10-M-5HL-4	Hose elbow 	For piping polyurethane tubing	ø4/2.5 x M5
	10-M-5HL-6			ø6/4 x M5
	10-M-5HLH-4	Hose elbow (H) 		ø4/2.5 x M5
	10-M-5HLH-6			ø6/4 x M5
	10-M-5L	Elbow 	One-sided 90° elbow	M5 female x M5 female

Series	Model	Description	Application	Note
M5	10-M-5T	Tee 	Both sides allow 90° connection	M5 female x M5 female x M5 female
	10-M-5UL	Universal elbow 	Body rotates at 360° around the stud axis.	M5 female x M5 male
	10-M-5UT	Universal tee 	Body rotates at 360° around the stud axis.	M5 female x M5 female x M5 male
	10-M-5J	Extension fitting 	Solid piece moves fitting up from workpiece	M5 male x M5 female
	10-M-5N	Nipple 	Connection for fitting to workpiece and fitting to fitting	M5 male x M5 male
	10-M-5UN	Universal nipple 	Body rotates at 360° around the center of axis.	M5 male x M5 male PAT.
	10-M-5B	Bushing 	For reducing R 1/8 female to M5	R 1/8 x M5 female
	10-M-5P	Plug 	Use to plug unused M5 port	
	10-M-5G1	Gasket 	To seal M5 thread	Material: Stainless steel 304 + NBR
	10-M-5GH	Gasket (H) 	10-M-5ALU-6 10-M-5ALHU-6 10-M-5HL-4, 6 10-M-5HLH-4, 6	Material: Aluminum + NBR

Air cylinder

Rotary actuator

Air gripper

Directional control valve

Flow control equipment

Filter, Pressure control equipment

Fittings & Tubing

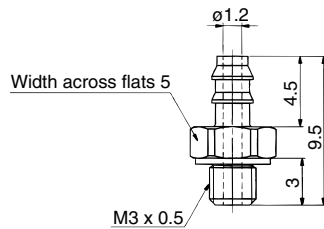
Air preparation equipment

Pressure switch

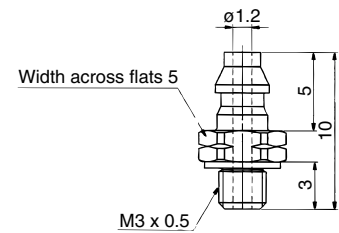
Clean gas filter

Series M3
Barb fitting for polyurethane tubing: 10-M-3AU-3

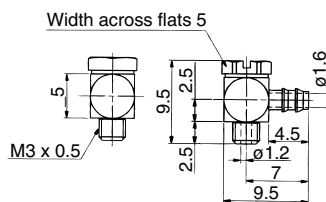
Effective area: 0.9mm²
Weight: 0.6g


Barb fitting for polyurethane tubing: 10-M-3AU-4

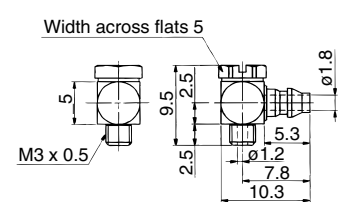
Effective area: 0.9mm²
Weight: 0.7g


Barb elbow for polyurethane tubing: 10-M-3ALU-3

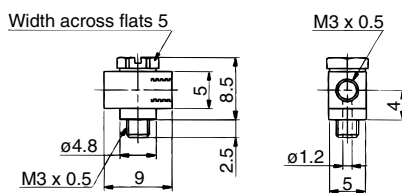
Effective area: 0.6mm²
Weight: 0.8g


Barb elbow for polyurethane tubing: 10-M-3ALU-4

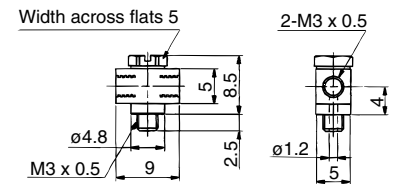
Effective area: 0.6mm²
Weight: 0.9g


Universal elbow: 10-M-3UL

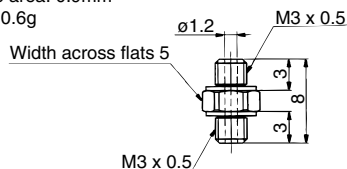
Effective area: 0.6mm²
Weight: 1.6g


Universal tee: 10-M-3UT

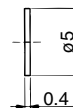
Effective area: 0.6mm²
Weight: 1.4g


Nipple: 10-M-3N

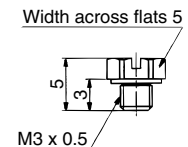
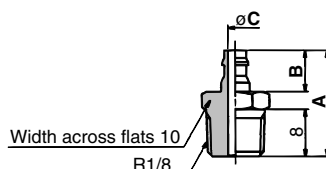
Effective area: 0.9mm²
Weight: 0.6g


Gasket: 10-M-3G

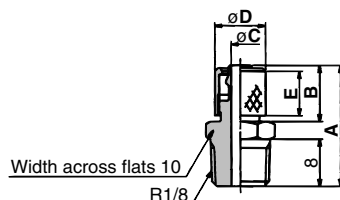
Weight: 0.005g


Plug: 10-M-3P

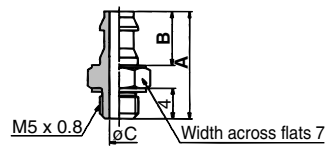
Weight: 0.5g


Series R 1/8
Barb fitting for polyurethane tubing: 10-M-01AU-4, -6


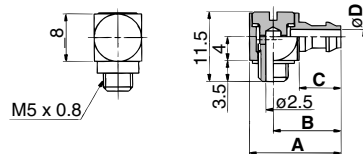
Applicable tubing	Model	A	B	C	Effective area (mm ²)	Weight (g)
Polyurethane tubing	10-M-01AU-4	16	5	1.8	2.1	6.5
	10-M-01AU-6	18	7	2.5	4.0	6.7

Hose nipple: 10-M-01H-4, -6


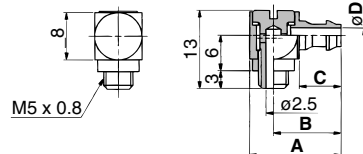
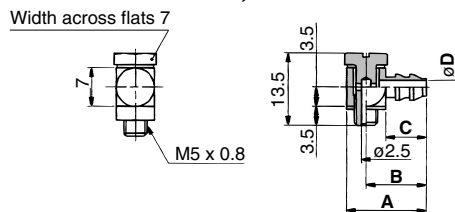
Model	A	B	C	D	E	Effective area (mm ²)	Weight (g)
10-M-01H-4	19.5	8.5	1.8	6.5	7	2.1	7.1
10-M-01H-6	20.5	9.5	3	8.5	8	5.5	7.7

Series M5
Barb fitting for polyurethane tubing: 10-M-5AU-3, -4, -6


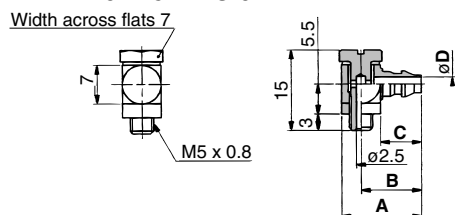
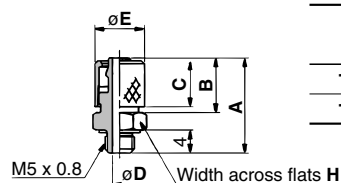
Model	A	B	C	Effective area (mm ²)	Weight (g)
10-M-5AU-3	11.5	4.5	1.6	1.7	1.5
10-M-5AU-4	12	5	1.8	2.1	1.6
10-M-5AU-6	14	7	2.5	4.0	1.8

Barb elbow for polyurethane tubing: 10-M-5ALU-3, -4, -6
10-M-5ALU-3, -4


Model	A	B	C	D	Effective area (mm ²)	Weight (g)
10-M-5ALU-3	12.5	8.5	4.5	1.6	1.1	4.0
10-M-5ALU-4	13.3	9.3	5	1.8	1.4	4.1
10-M-5ALU-6	15.3	11.3	7	2.5	2.4	4.5

10-M-5ALU-6

Barb elbow for polyurethane tubing: 10-M-5ALHU-3, -4, -6
10-M-5ALHU-3, -4


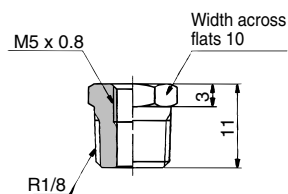
Model	A	B	C	D	Effective area (mm ²)	Weight (g)
10-M-5ALHU-3	11.5	8	4.5	1.6	1.1	3.2
10-M-5ALHU-4	12.3	8.8	5	1.8	1.4	3.3
10-M-5ALHU-6	14.3	10.8	7	2.5	2.4	3.9

10-M-5ALHU-6

Hose nipple: 10-M-5H-4, -6


Model	A	B	C	D	E	H	Effective area (mm ²)	Weight (g)
10-M-5H-4	15.5	8.5	7	1.8	6.5	7	2.1	2.7
10-M-5H-6	16.5	9.5	8	2.5	8.5	8	4.0	3.9

Series M5
Bushing: 10-M-5B

Weight: 5.8g


Plug: 10-M-5P

Weight: 1.3g


Gasket: 10-M-5G1

Weight: 0.04g


Gasket: 10-M-5GH

Weight: 0.08g



Air cylinder

Rotary actuator

Air gripper

Directional control
valve

Flow control
equipment

Filter, Pressure
control equipment

Fittings & Tubing

Air preparation
equipment

Pressure switch

Clean gas filter