

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder switch
MN3E
MN4E
4GA/B
M4GA/B
MN4GA/B
F.R (module unit)
Clean F.R
Precision R
Press gauge
Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

F Miniature fitting

Port size M5 to 1/8 (Rc or R)

● For piping size M5, bore size $\varnothing 3.2/\varnothing 4/\varnothing 6$
New series of miniature fittings is available



■ Barbed fitting				■ Clamp fitting	
Straight/FTS-P80	Elbow/FTL-P80	Tee/FTT-P80	Barbed nipple/FTS-0-P80	Straight/FCS-P80	
• Applicable tube O.D.: $\varnothing 3.2$ to $\varnothing 6$ • Page: 948	• Applicable tube O.D.: $\varnothing 3.2$ to $\varnothing 6$ • Page: 948	• Applicable tube O.D.: $\varnothing 3.2$ to $\varnothing 6$ • Page: 948	• Applicable tube O.D.: $\varnothing 3.2$ to $\varnothing 6$ • Page: 948	• Applicable tube O.D.: $\varnothing 3.2$ to $\varnothing 6$ • Page: 949	
■ Double screw nipple		■ Socket			
Elbow/FCL-P80	Straight/FNS-P80	Straight/FSS-P80	Elbow/FSL-P80	Tee/FST-P80	
• Applicable tube O.D.: $\varnothing 3.2$ to $\varnothing 6$ • Page: 949	• Page: 949	• Page: 949	• Page: 949	• Page: 950	
■ Adjustable socket				■ Bush	
Elbow/FAL-P80	Tee/FAT-P80	Cross/FAX-P80	Deforming union tee/FAY-P80	FBS-P80	
• Page: 950	• Page: 950	• Page: 951	• Page: 951	• Page: 951	
■ Bulkhead		■ Plug	■ Extension	■ Manifold	■ Gasket
FWS-P80 Sales unit: 5	FPL-P80	FLS-P80	FMB-P80 Sales unit: 1	FGS-P80 Sales unit: 100	
• Page: 951	• Page: 952	• Page: 952	• Page: 952	• Page: 952	

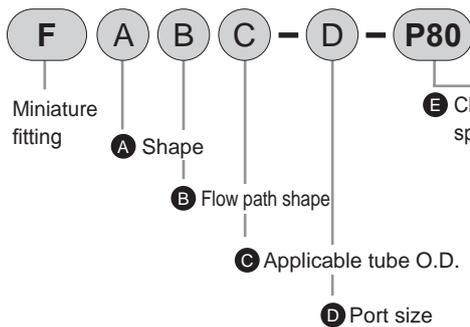
● If sales unit is not specified, the product is packed 10 pcs./1 bag.

Specifications

Descriptions	F
Working fluid	Compressed air
Max. working pressure MPa	0.7 or less
Ambient temperature/fluid temperature °C	-5 to 60 (no freezing)
Applicable tube	Urethane tube (model No. U-9504, U-9506) Note

Note: Use urethane tube within 0 to 60°C.

How to order



E Clean room specifications		
	Structure/treatment	Material restriction
P80	Oil-prohibited	-

Note 1: Refer to model No. section on dimensions page (pages 948 to 952) for combination of model No.

Note 2: Sales unit is 10 pcs./1 bag.

For the sales unit of each model, refer to the series variation on page 946.

Note 3: P80 Series

- Metal material: Brass + electroless nickeling
- Sealant material: Nitrile rubber (NBR)
- Without grease: Grease is not used as this is oil-prohibited specifications.
- Without sealant on screws: PTFE resin coating is not applied.

For this reason, it is same product as P84 Series. Specify in P80 Series when placing an order.

Note 4: P70/P74 Series are not set. Specify in P80 Series when placing an order.

Safety precautions

- (1) If urethane tube is used with 40°C and over, use a clamp fitting.
- (2) Apply torque on fittings, 0.3 to 0.6 N·m (90° retightening after manual tightening) on M3, and 1 to 1.5 N·m (30° retightening after manual tightening) on M5.
- (3) Use a nylon tube with tolerance of diameter within ± 0.1 , while urethane rubber tube within $^{+0.1}_{-0.15}$.
- (4) Type with slit on clamp ring of clamp fitting is for tube O.D. 3.2 mm.
- (5) If elbow, tee, cross, deforming tee or barbed fitting is used at frequently moving tube section, trouble may occur. So please avoid use in such place.
- (6) Bending radius of tube around the fitting must be the value and over in the right table.

Min. bending radius mm		Barbed fitting	Clamp fitting
ø4	Urethane	20	10
ø6	Urethane	40	20

- SCPD3
- SCM
- SSD2
- MDC2
- SMG
- LCM
- LCR
- LCG
- LCX
- STM
- STG
- STR2
- MRL2
- GRC
- Cylinder Switch
- MN3E
MN4E
- 4GA/B
- M4GA/B
- MN4GA/B
- F.R.(module unit)
- Clean F.R
- Precision R
- Press gauge
Diff. press gauge
- Electro-pneumatic R
- Speed controller
- Auxiliary valve
- Fitting/ tube
- Clean air unit
- Pressure sensor
- Flow rate sensor
- Valve for air blow
- Ending



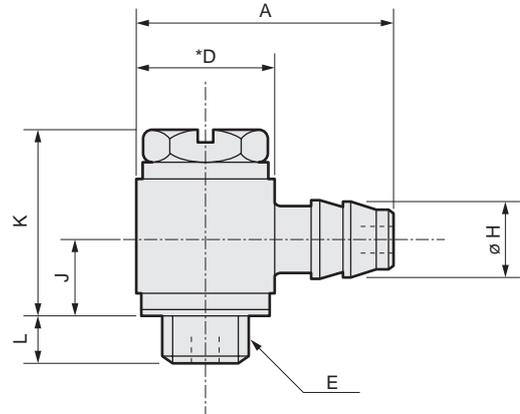
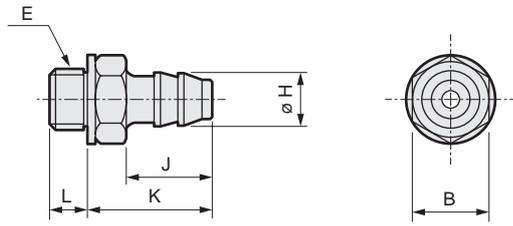
Dimensions: Barbed fitting (straight, elbow, tee, barbed nipple)

[Sales unit is 10 pcs./1 bag]

Barbed fitting

● Straight/FTS□ - □ -P80

● Elbow/FTL□ - □ -P80



Model No.	Applicable tube O.D. ϕ	B	E	Min. bore size	H	J	K	L	Effective cross-sectional area (mm ²)	Weight g
FTS4-M5	$\phi 3.2, \phi 4$	7	M5 x 0.8	1.8	2.9	5.5	8.6	2.9	2.1	1.5
FTS4-6	$\phi 3.2, \phi 4$	10	R1/8	1.8	2.9	5.5	9.5	8	2.1	5.9
FTS6-M5	$\phi 6$	7	M5 x 0.8	2.5	4.7	7	10.1	2.9	4.1	1.8
FTS6-6	$\phi 6$	10	R1/8	2.5	4.7	7	11	8	4.1	6.2

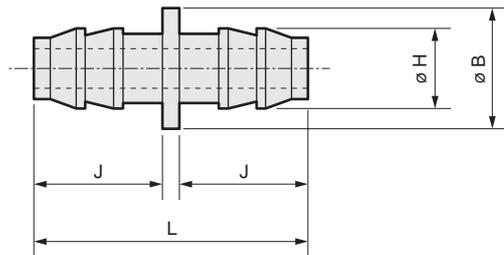
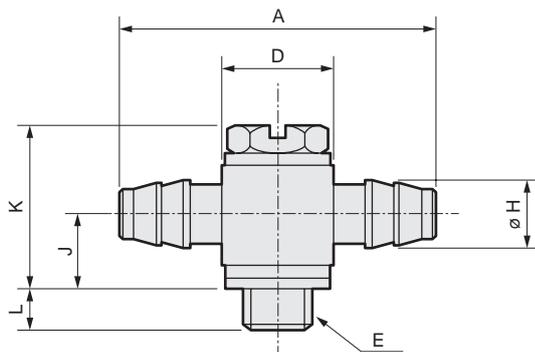
Model No.	Applicable tube O.D. ϕ	A	D	E	Min. bore size	H	J	K	L	Effective cross-sectional area (mm ²)	Weight g
FTL4-M5	$\phi 3.2, \phi 4$	13.5	8	M5 x 0.8	1.8	2.9	5.1	11.6	2.9	1.3	5.3
FTL6-M5	$\phi 6$	15	8	M5 x 0.8	1.8	4.7	5.1	11.6	2.9	1.5	5.6

Note: "Clean room specifications" code is omitted in model number above.

Note: "Clean room specifications" code is omitted in model number above.

● Tee/FTT□ - □ -P80

● Barbed nipple/FTS□-0-P80



Model No.	Applicable tube O.D. ϕ	A	D	E	Min. bore size	H	J	K	L	Effective cross-sectional area (mm ²)	Weight g
FTT4-M5	$\phi 3.2, \phi 4$	19	8	M5 x 0.8	1.8	2.9	5.1	11.6	2.9	1.3	5.3
FTT6-M5	$\phi 6$	22	8	M5 x 0.8	1.8	4.7	5.1	11.6	2.9	1.5	6.0

Model No.	Applicable tube O.D. ϕ	B	Min. bore size	H	J	L	Effective cross-sectional area (mm ²)	Weight g
FTS6-0	$\phi 6$	7	2.5	4.7	7	15	4.1	1.5

Note: "Clean room specifications" code is omitted in model number above.

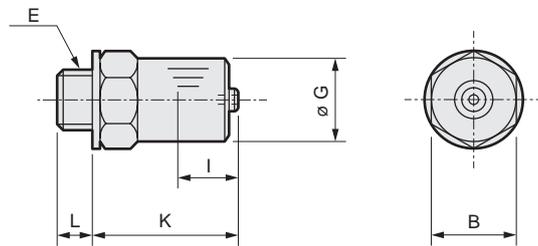
Note: "Clean room specifications" code is omitted in model number above.

Dimensions: Clamp fitting (straight, elbow)/double screw nipple (straight)/socket (straight)

Clamp fitting

[Sales unit is 10 pcs./1 bag]

● Straight/FCS □ - □ -P80

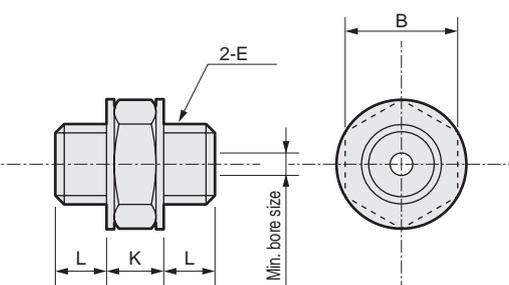


Model No.	Applicable tube O.D. ø	B	E	Min. bore size	G	I	K	L	Effective cross-sectional area (mm ²)	Weight g
FCS4-M5	ø4	7	M5 x 0.8	1.8	7	4.3	11.7	2.9	2.1	3.1
FCS4-6	ø4	10	R1/8	1.8	7	4.3	12.1	8	2.1	7.2
FCS6-M5	ø6	8	M5 x 0.8	2.5	9	5	12.4	2.9	4.1	4.4
FCS6-6	ø6	10	R1/8	2.5	9	5	12.8	8	4.1	8.3

Note: "Clean room specifications" code is omitted in model number above.

Double screw nipple

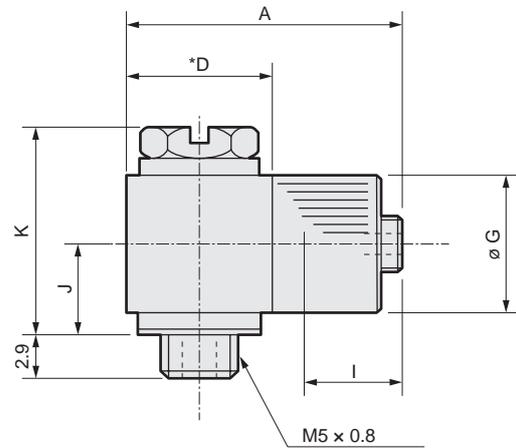
● Straight/FNS □ - □ -P80



Model No.	B	E	Min. bore size	K	L	Effective cross-sectional area (mm ²)	Weight g
FNS-M5	7	M5 x 0.8	1.8	3.7	2.9	2.1	1.9

Note: "Clean room specifications" code is omitted in model number above.

● Elbow/FCL □ - □ -P80

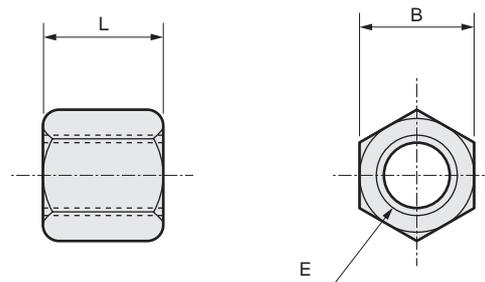


Model No.	Applicable tube O.D. ø	A	D	Min. bore size	G	I	J	K	Effective cross-sectional area (mm ²)	Weight g
FCL4-M5	ø4	16.1	8	1.8	7	4.3	5.1	11.6	1.3	6.7
FCL6-M5	ø6	17.8	9	1.8	9	5	6.1	13.6	1.5	10

Note: "Clean room specifications" code is omitted in model number above.

Socket

● Straight/FSS □ - □ -P80



Model No.	B	E	L	Effective cross-sectional area (mm ²)	Weight g
FSS-M5	7	M5 x 0.8	8	9	1.8

Note: "Clean room specifications" code is omitted in model number above.

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STM
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STR2
MRL2
GRC
Cylinder Switch
MN3E MN4E
4GA/B
M4GA/B
MN4GA/B
F.R.(module unit)
Clean F.R
Precision R
Press gauge Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

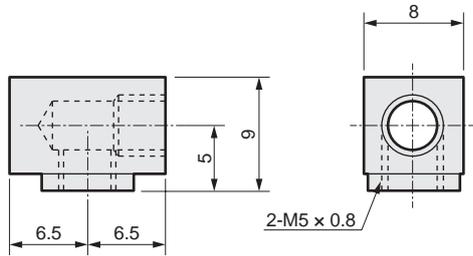


Dimensions: Double screw nipple (elbow)/socket (tee)/adjustable socket (elbow/tee)

[Sales unit is 10 pcs./1 bag]

Double screw nipple

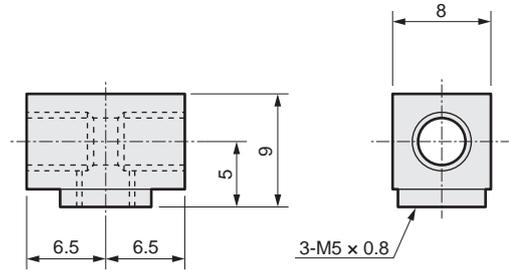
- Elbow/FSL-M5-P80



Effective cross-sectional area 8 mm²
Weight: 5.9 g

Socket

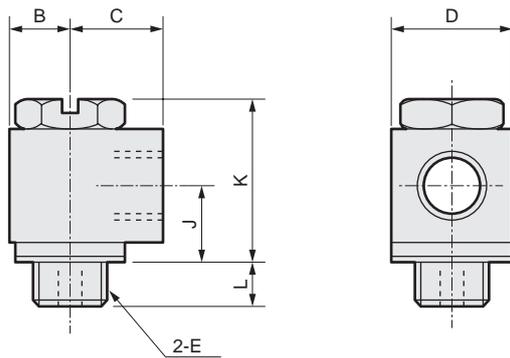
- Tee/FST-M5-P80



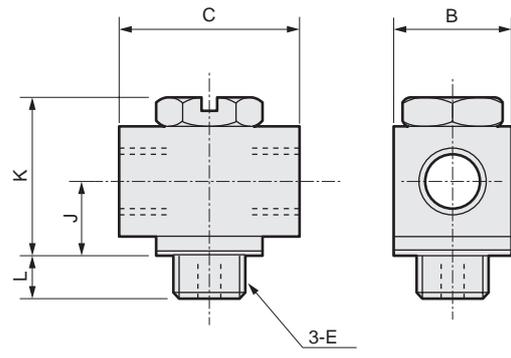
Effective cross-sectional area 8 mm²
Weight: 5.1 g

Adjustable socket

- Elbow/FAL-*-P80



- Tee/FAT-*-P80



Model No.	B	C	D	E	Min. bore size	J	K	L	Effective cross-sectional area (mm ²)	Weight g
FAL-M5	4	6.5	8	M5 x 0.8	1.8	5.6	11.6	2.9	1.7	6.0

Note: "Clean room specifications" code is omitted in model number above.

Model No.	B	C	E	Min. bore size	J	K	L	Effective cross-sectional area (mm ²)	Weight g
FAT-M5	8	12	M5 x 0.8	1.8	5.6	11.6	2.9	1.7	6.4

Note: "Clean room specifications" code is omitted in model number above.

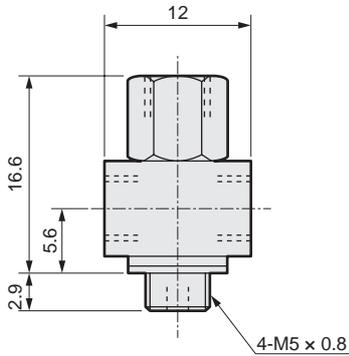
Dimensions: Adjustable socket (cross, deforming union tee)/bush/bulkhead



Adjustable socket

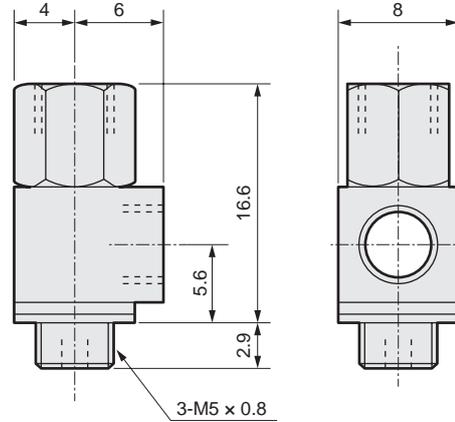
● Cross/FAX-M5-P80

• Sales unit is 10 pcs./1 bag



Min. bore size 1.8 mm
Effective cross-sectional area 1.7 mm²
Weight: 7.4 g

● Deforming union tee/FAY-M5-P80 • Sales unit is 10 pcs./1 bag

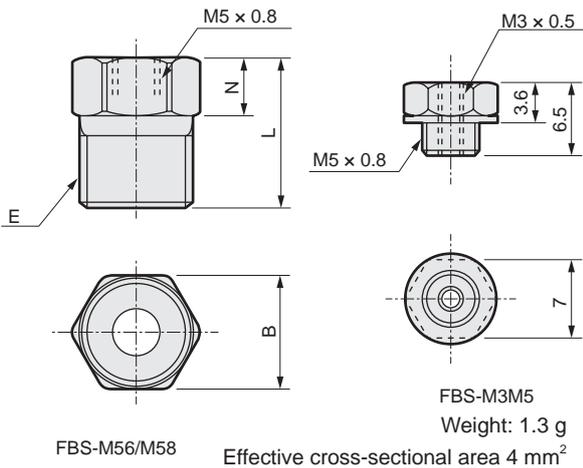


Min. bore size 1.8 mm
Effective cross-sectional area 1.7 mm²
Weight: 7.0 g

Bush

● FBS-*-P80

• Sales unit is 10 pcs./1 bag



FBS-M56/M58

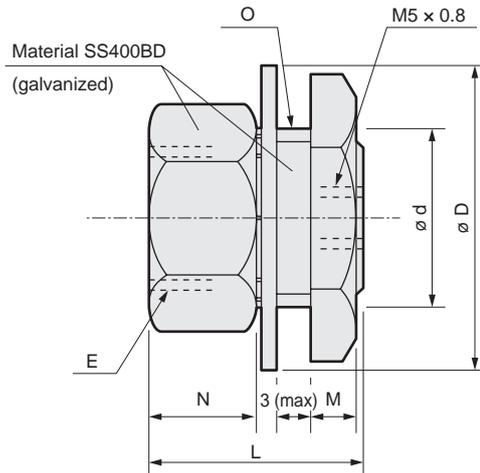
Effective cross-sectional area 4 mm²

FBS-M3M5
Weight: 1.3 g

Bulkhead

● FWS-*-P80

• Sales unit is 5 pcs./1 bag



Material SS400BD
(galvanized)

Model No.	B	E	L	N	Effective cross-sectional area (mm ²)	Weight g
FBS-M56	10	R1/8	12	4	9	6.0
FBS-M58	14	R1/4	16	5	9	16

Note: "Clean room specifications" code is omitted in model number above.

Model No.	D	d	E	L	M	N	O	Effective cross-sectional area (mm ²)	Weight g
FWS-M5	14.7	8	M5 x 0.8	11	3	4	M8 x 1	9	5.5
FWS-M56	15.2	12	Rc1/8	14	5	7	M12 x 1	9	15

Note: "Clean room specifications" code is omitted in model number above.

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MN4E
4GA/B
M4GA/B
MN4GA/B
F.R.(module unit)
Clean F.R
Precision R
Press gauge
Dif. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
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Flow rate sensor
Valve for air blow
Ending

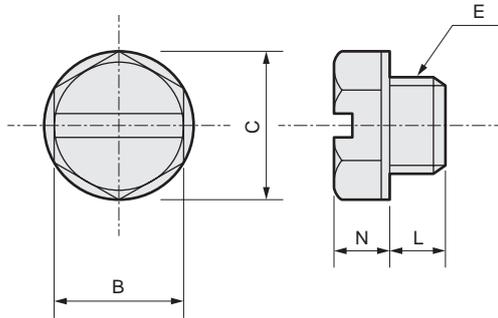
Dimensions: Plug/extension/manifold/gasket



Plug

● FPL-*-P80

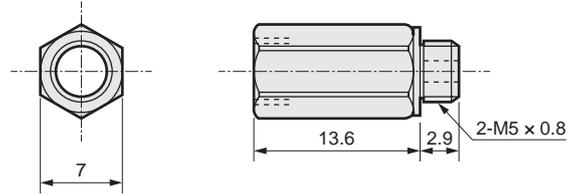
• Sales unit is 10 pcs./1 bag



Extension

● FLS-M5-P80

• Sales unit is 10 pcs./1 bag



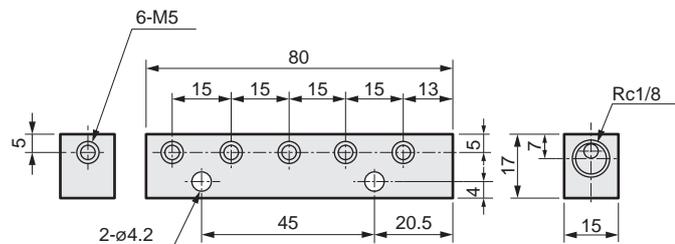
Effective cross-sectional area 2.1 mm²
Weight: 3.7 g

Model No.	B	C	E	N	L	Weight g
FPL-M5	7	7.8	M5 x 0.8	3.1	2.9	1.5

Manifold

● FMB-M56-P80

• Sales unit is 1 pcs./1 bag

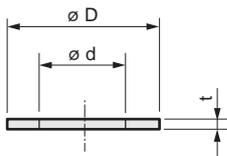


Weight: 50 g

Gasket

● FGS-P80

• Sales unit is 100 pcs./1 bag



Model No.	D	d	t	Weight g
FGS-M5	7.8	4.8	0.6	0.1