



Antistatic tube

- O.D.: 3.2 mm, 4 mm, 6 mm, 8 mm, 10 mm, 12 mm

Features

- Resistant to static electricity and dust build-up
- Variety of colors
Tubing is available in black, white, transparent, transparent blue, transparent green, or transparent red. Applications can be distinguished by color.
- Diverse lineup
• Six diameters are available: $\phi 3.2$, $\phi 4$, $\phi 6$, $\phi 8$, $\phi 10$, and $\phi 12$.

Specifications

Item	UP-91□□-F2-P80						
O.D. × I.D.	mm × mm	$\phi 3.2 \times \phi 1.8$ (Note)	$\phi 4 \times \phi 2.5$	$\phi 6 \times \phi 4$	$\phi 8 \times \phi 5$	$\phi 10 \times \phi 6.5$	$\phi 12 \times \phi 8$
Working fluid		Compressed air					
Max. working pressure	MPa	0.7 (20°C)					
Ambient temperature	°C	0 to 60 (no freezing)					
Durometer hardness (JIS K 7215)		HDA94 (reference)					
Min. bending radius (JIS B 8381)	mm	4	6	12	10	13	16.5
Min. installation radius	mm	8	11	18	25	30	36
Burst pressure	MPa	2.1 (20°C)					
Volume resistance ratio (JIS K 6911)	$\Omega \cdot \text{cm}$	Black: 10^4 to 10^5 , other colors: 10^{10} to 10^{11} (reference value)					
Material		Antistatic urethane					
Color		Black, white, transparent, transparent blue, transparent green, transparent red (Note)					

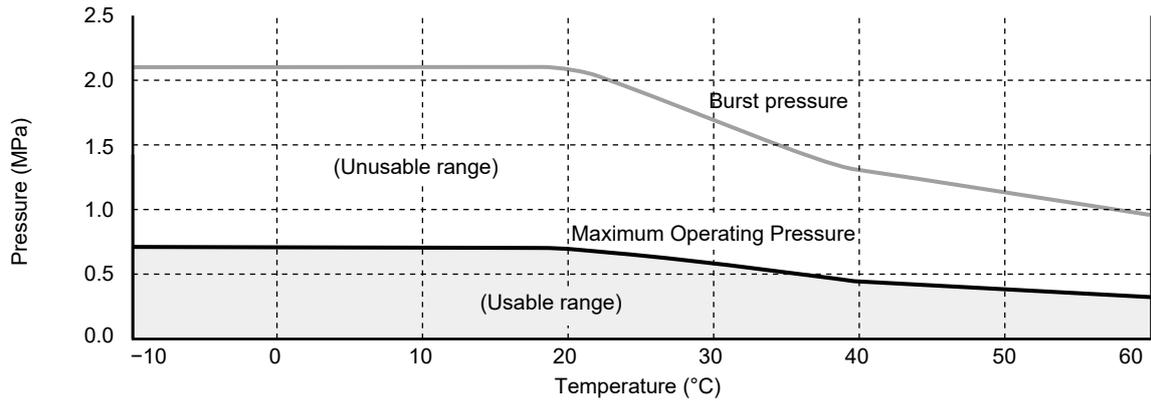
Model No. Notation Method



Code	Content
① Tube size	
32	$\phi 3.2$ (Note)
04	$\phi 4$
06	$\phi 6$
08	$\phi 8$
10	$\phi 10$
12	$\phi 12$
② Length per roll	
20	20 m roll
③ Tube color	
Blank	Black
W	White
C	Transparent
CB	Transparent blue
CG	Transparent green
CR	Transparent red (Note)

Note: Custom Product is used for all colors of outer diameter $\phi 3.2$ and transparent red for other outer diameters.

Ambient temperature and pressure (use/burst)



● Insert ring

INS - UP 32 - 1 - P80

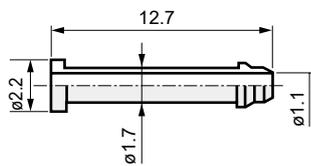
A Compatible tube		B Clean-room specifications	
32	For UP-9132	P80	Oil-prohibited
04	For UP-9104		
06	For UP-9106		

Sales unit is 10 pcs./bag.

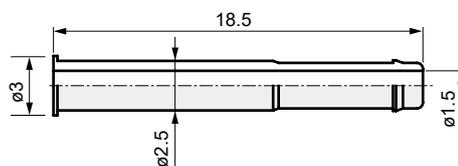
External Dimension Drawings

● Insert ring [Custom Product]

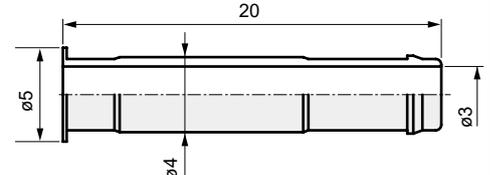
• INS-UP32-1-P80



• INS-UP04-1-P80



• INS-UP06-1-P80



Material: brass + electroless nickeling

- 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

Antistatic tube

Safety precautions

SCPD3

Safety precautions

SCM



CAUTION

SSD2

■ Design & selection

- Be sure to ground the part connected to the fitting. Electrostatic discharge could build up in tubing if the part is not grounded.
- When using tubing where electrostatic discharge must be prevented, select "black" tubing.
- Use the same size of tube and push-in fitting.
- When using with vacuum pressure with a push-in fitting, use the insert ring.
- Use CKD's fittings and tubes.
- Do not apply a pulling force exceeding the values given on the right onto the fitting or tube.

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

(N)

Tube outer diameter	Pulling force
ø3.2	30
ø4	30
ø6	55
ø8	110
ø10	150
ø12	180

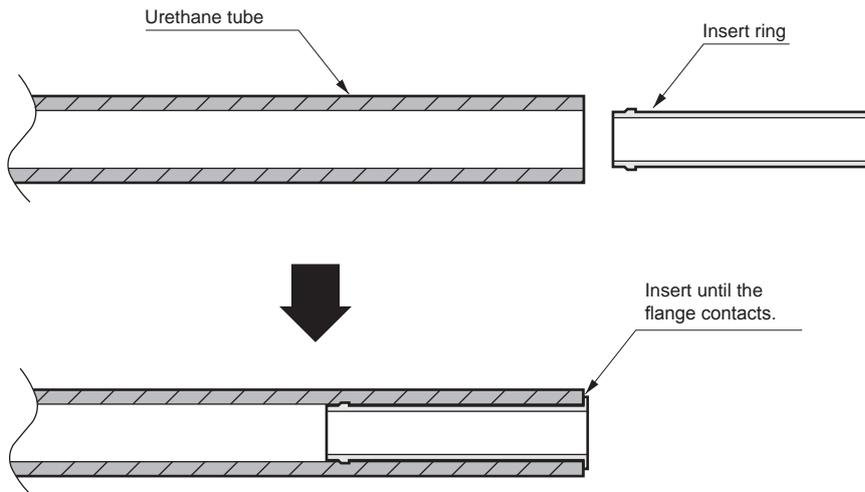
■ Installation & adjustment

- The insert ring can be pulled out of urethane tube with fingers when changing or modifying piping connection. The insert ring needs not be discarded.

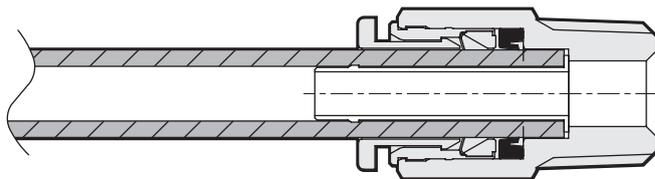
■ During use & maintenance

- Insert the insert ring by hand. It could deform or break and cause vacuum leakage if inserted with a tool.
- Mounting method

1. Insert the insert ring into the urethane tube with fingers.



2. Insert into the push-in fitting (GW Series).





Urethane tube

New manufacturing technology has enabled the larger bore size and improved strength without increasing the outer diameter. This piping tube is also used for larger flow rate. Effective for cost reduction.

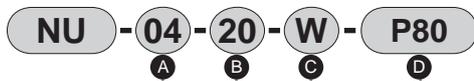
Common specifications

Descriptions	
Working fluid	Air
Ambient temperature °C	0 to 60
Burst pressure MPa	4 (at 20°C)
Max. working pressure MPa	1.0 (at 20°C)
Operating vacuum pressure kPa	-100

Specifications

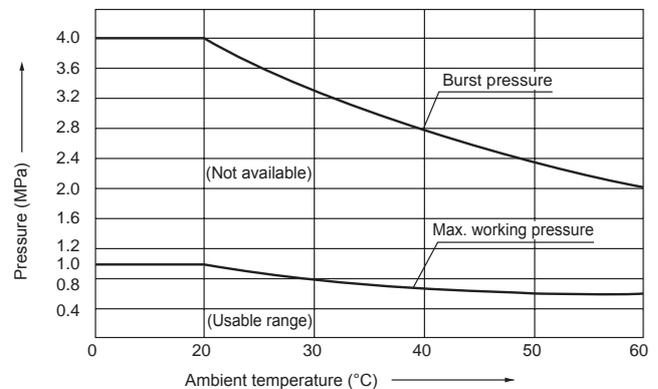
Descriptions	NU-04	NU-06	NU-08	NU-10	NU-12
O.D. × I.D. mm × mm	4 × 2.5	6 × 4.5	8 × 6	10 × 7.5	12 × 9
Burst pressure MPa	4 to 2.4				
Ambient temperature °C	0 to 60 (no freezing)				
Durometer hardness (JIS K7215)	HDD 64				
Min. bending radius (JIS B 8381) mm	8	16	24	30	36
Min. installation radius mm	12	26	36	42	52
Outer diametral accuracy mm	+0.1 -0.1			+0.1 -0.15	
Weight g/m	10	15	28	42	62
Tube color	Black/white				
Length per roll m	20				

How to order



A	Tube size (O.D.)	B	Length per roll	C	Tube color	D	Clean room specifications
04	ø4	20	20 m	Blank	Black (standard)		Treatment
06	ø6			w	White (standard)	P80	Oil-prohibited
08	ø8						
10	ø10						
12	ø12						

Ambient temperature and pressure (use/burst)



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