

Shape-keeping Tubing

DK

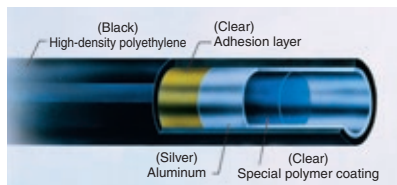
For retaining shape and fixed piping in absence of clamp

Features

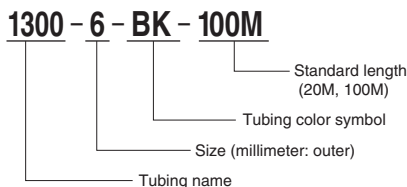
- Aluminum is used for the inner layer for maintaining the shape. Suitable for fixed piping.
- Better workability compared to copper piping if DK fittings are used. Tubing end processing is not necessary.



Structure diagram



Product number example



Product number table

● Millimeter size type (Group 4)

Type	Outer diameter × Inner diameter (mm)	Max. working pressure (MPa at 20°C)	Min. bending radius (mm)	Weight (g/m)	Standard color (color symbol)
					Black BK
1300-6	6×4	1.0	20	21	●
1300-10	10×6.8		40	47	●

Applicable fittings

QuickSeal series DK tubing dedicated typeP.98

Polybutene Tubing

PB

For food processing machines

Features

- Suitable for piping that requires high temperature antimicrobial cleaning of food processing machines.
- Compliant with the MHLW Ministerial Notification No.201(2006), MHW Ministerial Notification No.370(1959), Japan.



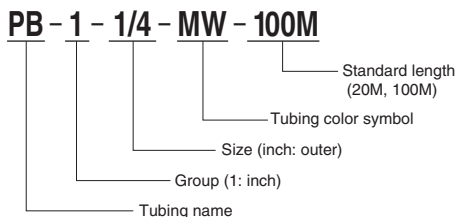
Product number table

● Inch size type (Group 1)

Type	Outer diameter × Inner diameter (mm)	Max. working pressure (MPa at 20°C)	Min. bending radius (mm)	Weight (g/m)	Standard color (color symbol)
					Milky white MW
* PB-1-1/4	6.35×4.57	1.1	25	14	○
* PB-1-3/8	9.53×6.99		30	30	○
* PB-1-1/2	12.70×9.56		40	50	○

* Made to Order

Product number example



Handling instructions

⚠ Caution: When water is used as the operating fluid, the tubing material might degrade depending on the additive. Contact us for details.

⚠ Caution: When water is used as the operating fluid, keep the surge pressure below the maximum working pressure. Also, do not allow the water to freeze.

👉 See page 10 for common instructions for tubing products.

Applicable fittings

QuickSeal series Insertion type (brass), QuickSeal series Insertion type (stainless) Chemifit CSE series.*1

(*1) Combinatory use of PB tubing and Chemifit series mixes general and clean type performances. When using them together in a clean environment, be aware of how this could lower the cleanliness level.

Reference

Chemical resistance specification tableP.198 Effective sectional areaP.168 Negative-pressure performance listP.169

Operating fluid, working temperature range

Operating fluid	Working temperature range
Air	-40°C~+60°C

Negative pressure performance

-101.294kPa

Relation between the working temperature and the maximum working pressure

The maximum working pressure of DK tubing does not decrease by temperature as far as within the working temperature (environment temperature) range.

Handling instructions

⚠ Caution: DK tubing cannot be used for movable applications.

👉 See page 10 for common instructions for tubing products.

Reference

Effective cross area P.168
Negative-pressure performance list P.169

Operating fluid, working temperature range

Operating fluid	Working temperature range
Air	-10°C~+90°C
Water	0°C~+90°C

Negative pressure performance

-101.294kPa

Relation between the working temperature and the maximum working pressure

The maximum working pressure varies with the working temperature (environmental temperature). For use at an abnormal temperature, always check the maximum working pressure change in the graph below and keep the pressure within the indicated range.

⚠ Caution: Using tubes at a pressure outside the range may cause accidents or damage, for which Nitta is not liable.

