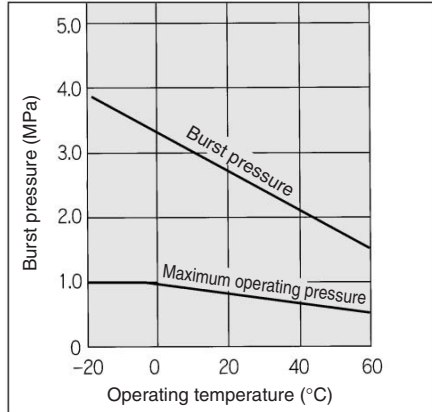


# Polyurethane Coil Tubing

## Series TCU



**For flexible tubing**  
**Compact piping possible**  
**Burst Pressure Characteristics**  
**Curve and Operating Pressure**



### ⚠ Precautions

Be sure to read before handling.  
Refer to pages 15-18-3 to 4 for Safety Instructions and Common Precautions on the products mentioned in this catalog, and refer to pages 15-1-10 to 11 for Precautions on every series.

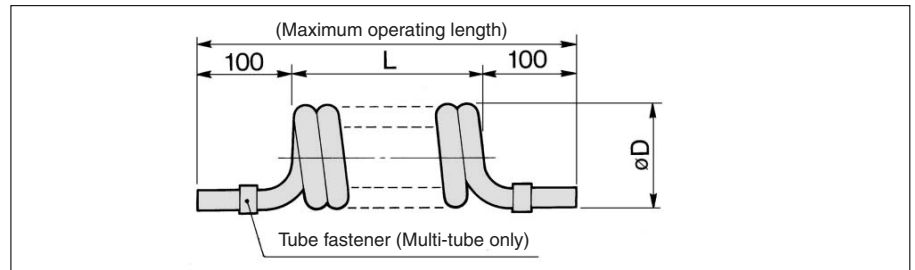
### ⚠ Caution

- Please consult with SMC regarding use with any fluids other than air.
- Refer to the burst pressure characteristics curve for other temperatures. Furthermore, abnormal temperature rises caused by adiabatic compression may result in the burst of the tube.

### Model/Specifications

| Model                             | TCU<br>0425B-1                                     | TCU<br>0425B-2 | TCU<br>0425B-3 | TCU<br>0604B-1 | TCU<br>0604B-2 | TCU<br>0604B-3 | TCU<br>0805B-1 |
|-----------------------------------|----------------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Number of cores                   | 1 core                                             | 2 cores        | 3 cores        | 1 core         | 2 cores        | 3 cores        | 1 core         |
| Tubing O.D. (mm)                  | 4                                                  |                |                | 6              |                |                | 8              |
| Tube I.D. (mm)                    | 2.5                                                |                |                | 4              |                |                | 5              |
| Fluid                             | Air                                                |                |                |                |                |                |                |
| Max. operating pressure (at 20°C) | 0.8 MPa                                            |                |                |                |                |                |                |
| Burst pressure                    | Refer to the burst pressure characteristics curve. |                |                |                |                |                |                |
| Operating temperature             | -20 to +60°C                                       |                |                |                |                |                |                |
| Material                          | Polyurethane                                       |                |                |                |                |                |                |
| Color                             | Black                                              |                |                |                |                |                |                |

### Dimensions



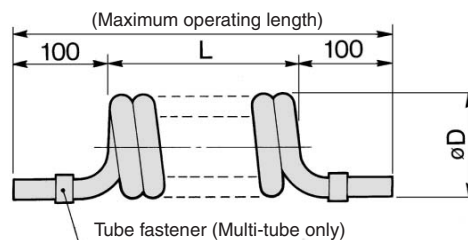
| Specifications<br>Model | Tubing size (mm) |      | Coil (mm) |    | No. of cores | No. of coil windings per tube length | Max. operating length (m) | Standard unit of packing |
|-------------------------|------------------|------|-----------|----|--------------|--------------------------------------|---------------------------|--------------------------|
|                         | O.D.             | I.D. | L         | ØD |              |                                      |                           |                          |
| TCU0425B-1              | 4                | 2.5  | 210       | 18 | 1            | 52                                   | 1.5                       | 5 tubes/case             |
| TCU0425B-2              |                  |      | 280       | 28 | 2            | 35                                   |                           |                          |
| TCU0425B-3              |                  |      | 265       | 28 | 3            | 22                                   |                           |                          |
| TCU0604B-1              | 6                | 4    | 325       | 24 | 1            | 54                                   | 2                         |                          |
| TCU0604B-2              |                  |      | 305       | 37 | 2            | 27                                   | 1.5                       |                          |
| TCU0604B-3              |                  |      | 305       | 37 | 3            | 17                                   | 1                         |                          |
| TCU0805B-1              | 8                | 5    | 330       | 31 | 1            | 41                                   | 2                         |                          |

\* Dimensions are changeable due to material.

### Made to Order

Change of coil turns, Change of color

(Please contact SMC for specifications in detail, dimensions and delivery.)



| Specifications<br>Model | Tubing size (mm) |      | Coil (mm) |    | No. of cores | No. of coil windings per tube length (N) | Max. operating length (mm) |
|-------------------------|------------------|------|-----------|----|--------------|------------------------------------------|----------------------------|
|                         | O.D.             | I.D. | L         | ØD |              |                                          |                            |
| TCU0425□-1-N-X6         | 4                | 2.5  | N x 4     | 18 | 1            | 3 to 90                                  | L x 5.9 + 200              |
| TCU0425□-2-N-X6         |                  |      | N x 8     | 28 | 2            | 3 to 90                                  | L x 4.4 + 200              |
| TCU0425□-3-N-X6         |                  |      | N x 12    | 28 | 3            | 3 to 63                                  | L x 2.9 + 200              |
| TCU0604□-1-N-X6         | 6                | 4    | N x 6     | 24 | 1            | 3 to 90                                  | L x 5.3 + 200              |
| TCU0604□-2-N-X6         |                  |      | N x 12    | 37 | 2            | 3 to 66                                  | L x 3.8 + 200              |
| TCU0604□-3-N-X6         |                  |      | N x 18    | 37 | 3            | 3 to 44                                  | L x 2.5 + 200              |

\* □: B (Black), W (White), R (Red), BU (Blue), Y (Yellow), G (Green), C (Clear), YR (Orange)