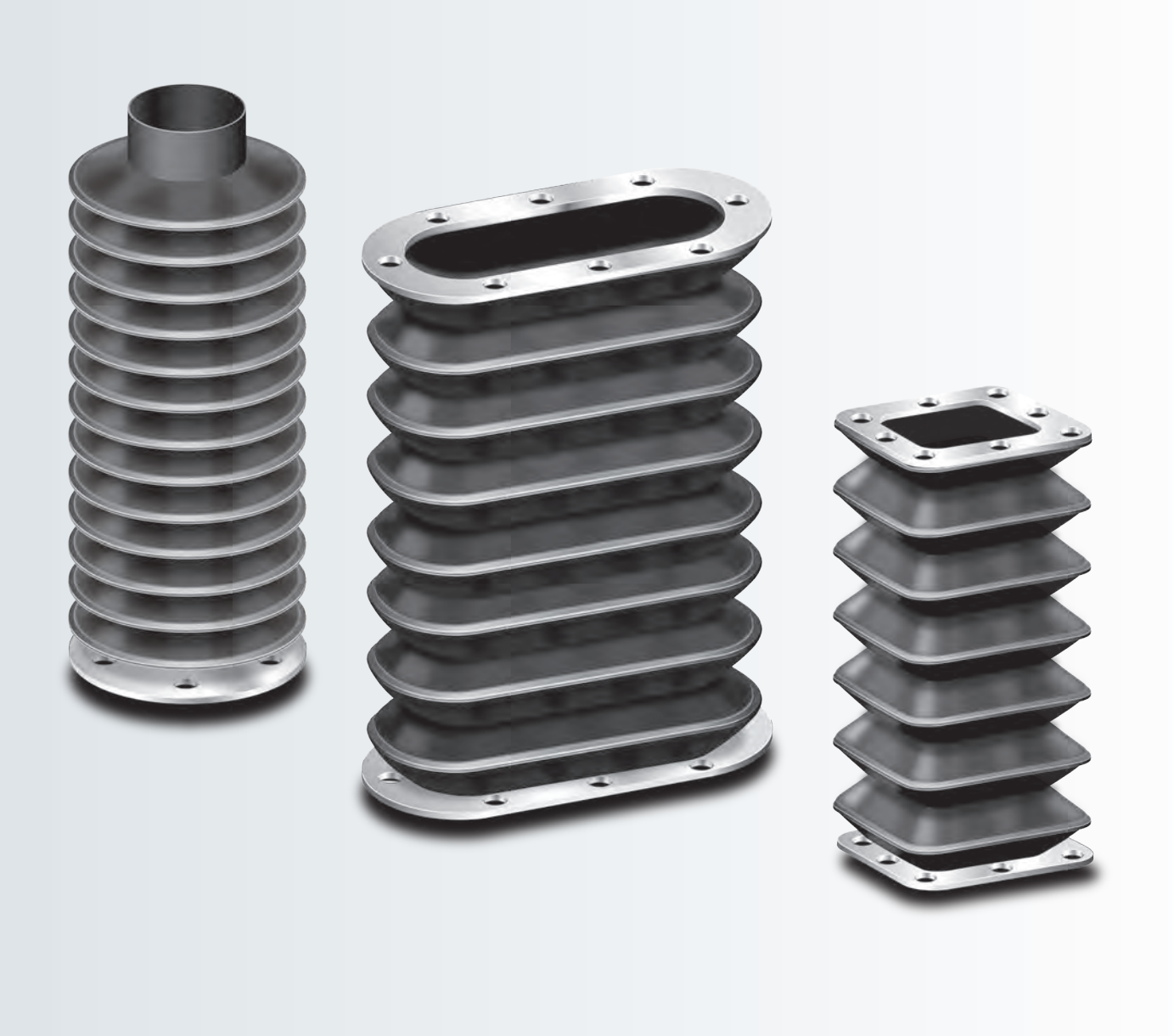
# THERMIC-WELDED TIGHT BELLOWS

**They are used when watertight protection of the components (i.e. screws, shafts, etc.) is necessary against the contamination made by coolants.**

- Economic bellows
- Good resistance to chemicals
- Resistance to heat compatible with the used materials (see characteristics on pages 56-57)
- They can be supplied in a variety of geometrical shapes, with low cost production of moulds (if not already present in our stock).

- **Materials available:**
  Code TEMAT 018
  Code TEMAT 019
  Code TEMAT 153

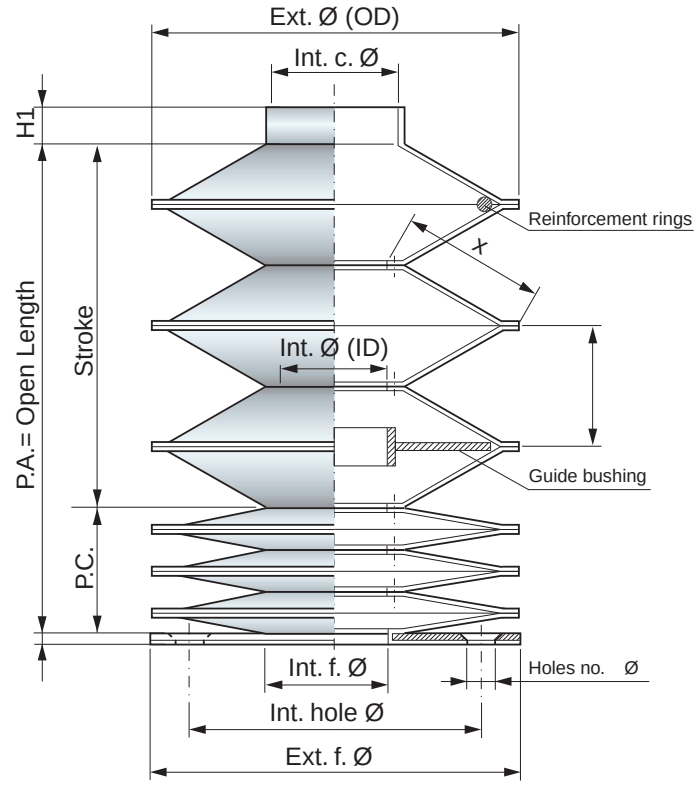
See the characteristics shown in the tables on pages 56-57.



# SEWN ROUND BELLOWS

**These are used when strong rotation resistance is required (for instance, to cover ball screws) and where a very compact closed pack is required.**

- Highly **reliable** bellows
- High resistance to mechanical and dynamic **stress**
- Resistance to **coolants and oils**
- Suitable for **high temperatures**
- Available with guide **bushings** and reinforcement **rings**
- No tooling **costs**
- With selected **edging** (in safety colors upon request)
- Minimum internal diameter **starting at 20 mm**
- **Any size** external diameter
- Good **price/quality** ratio




**Materials available:**

- Polyester coated with Neoprene* and Hypalon*
- Polyester coated with Nitril rubber
- Polyester coated with Polyurethane
- Polyester coated with PVC
- Kevlar* coated with Neoprene* and Hypalon*
- Kevlar* coated with Polyurethane
- Fiberglass coated with Silicone and Neoprene*
- Fiberglass coated with PVC
- Aluminum-coated fabrics

* Neoprene, Hypalon and Kevlar are registered Dupont trademarks

(see materials list on pages 56-57)

**Formula for calculating the CLOSED LENGTH**

**P.C.**= Closed Length = NP · SP*

$$\textbf{NP}\text{= Number of folds} = \frac{\text{P.A.}}{\text{AP}} + 1$$

* **SP**= Thickness of 1 fold; see materials list on page 52-53

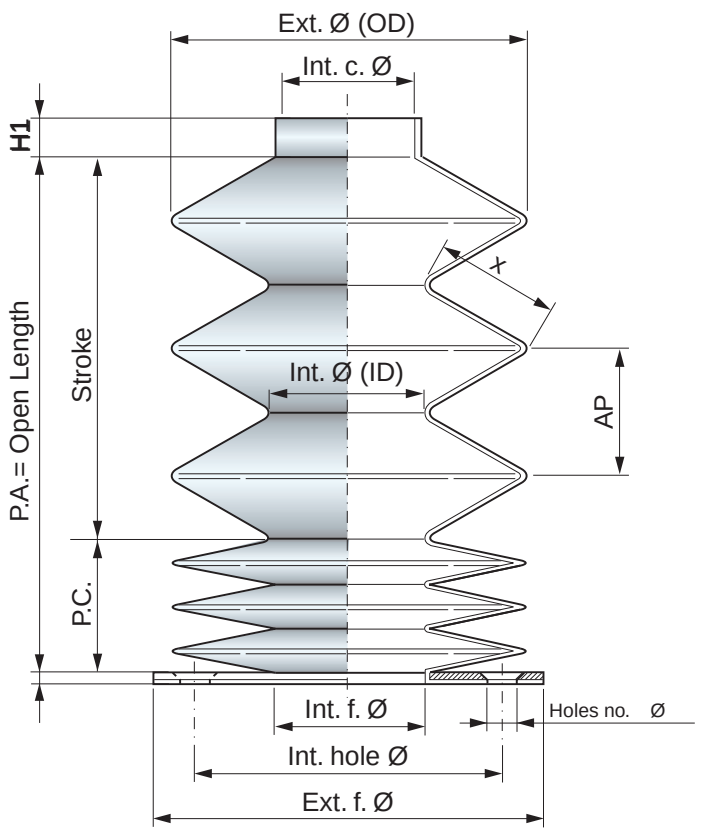
$$\textbf{AP}\text{= Opening of 1 fold} = \left(\frac{\text{Ø e. soff.- Ø i. soff.}}{2} - 6\right) \cdot 1{,}2$$

**Note:** When steel rings are required inside the folds, the **P.C.** is calculated by our engineering department.

## HEAT-FORMED BELLOWS

**These are used when high mechanical strength and heat resistance are required.**

- Excellent resistance to **mechanical stress**
- Also available cone-shaped
- Resistance to **coolants and oils**
- No tooling **costs**
- Available with guide **bushings** and **reinforcement rings** upon request
- Suitable for **high temperatures**



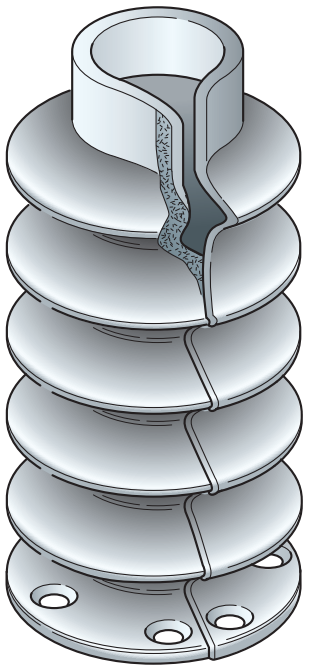

## OPEN HEAT-FORMED BELLOWS

**Materials available:**

- Polyester coated with Neoprene* and Hypalon*
- Polyester coated with Nitril rubber
- Polyester coated with Polyurethane
- Polyester coated with PVC
- Fiberglass coated with Silicone and Neoprene*

* Neoprene and Hypalon are registered Dupont trademarks

(see materials list on pages 56-57)



Upon request with
**longitudinal opening seam**
when the bellow must be disassembled
without dismantling the part to be protected

**Formula for calculating the CLOSED LENGTH**

**P.C.**= Closed Length = NP · SP*

$$\textbf{NP}\text{= Number of folds} = \frac{\text{P.A.}}{\text{AP}} + 1$$

* **SP**= Thickness of 1 fold; see materials list on pages 56-57

$$\textbf{AP}\text{= Opening of 1 fold} = \left(\frac{\text{Ø e. soff.- Ø i. soff.}}{2}\right) \cdot 1{,}41$$

**Note:** When steel rings are required inside the folds, the **P.C.** is calculated by our engineering department.