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 52-53)
- They can be supplied in a variety of geometrical shapes, with low cost production of moulds (if not already present in our stock).

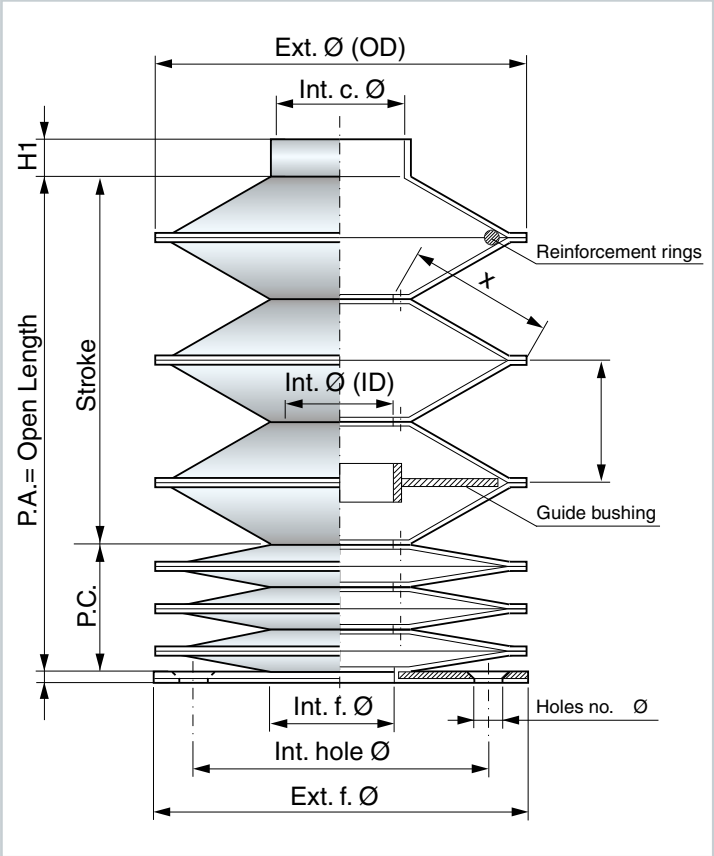
- **Materials available:**
  Code TEMAT 018
  Code TEMAT 019
  Code TEMAT 153

See the characteristics shown in the tables on pages 52-53.

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 52-53)

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

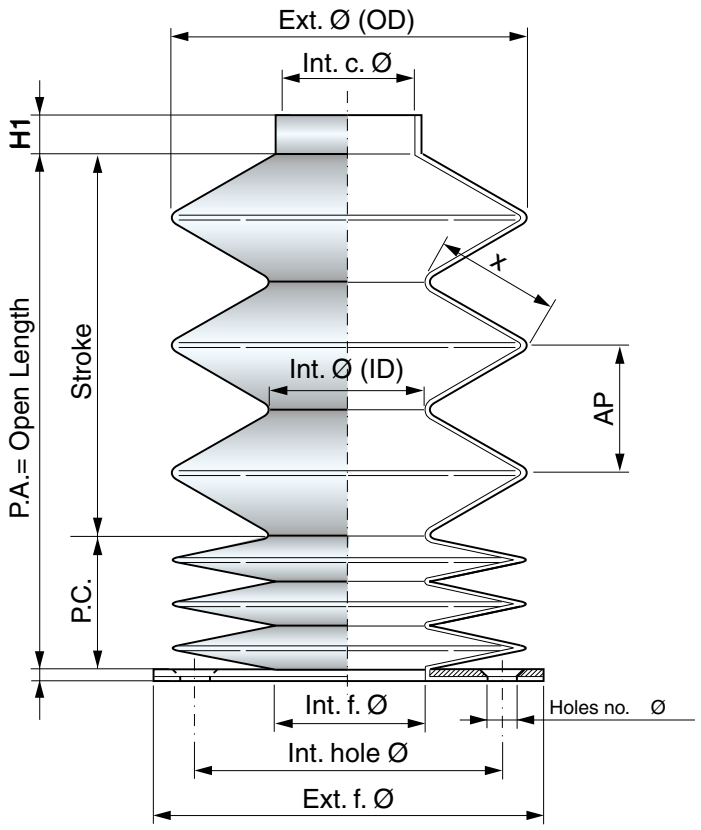
$$\textbf{AP}= \text{Opening of 1 fold} = \left(\frac{\text{Ø e. soff.} - \text{Ø i. soff.}}{2} - 6\right) \cdot 1{,}2$$

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**



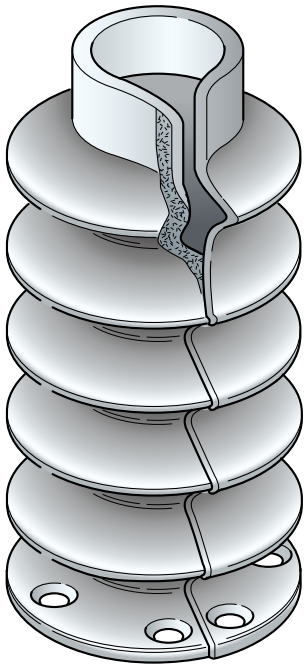
OPEN HEAT-FORMED BELLOWS

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 52-53)



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*

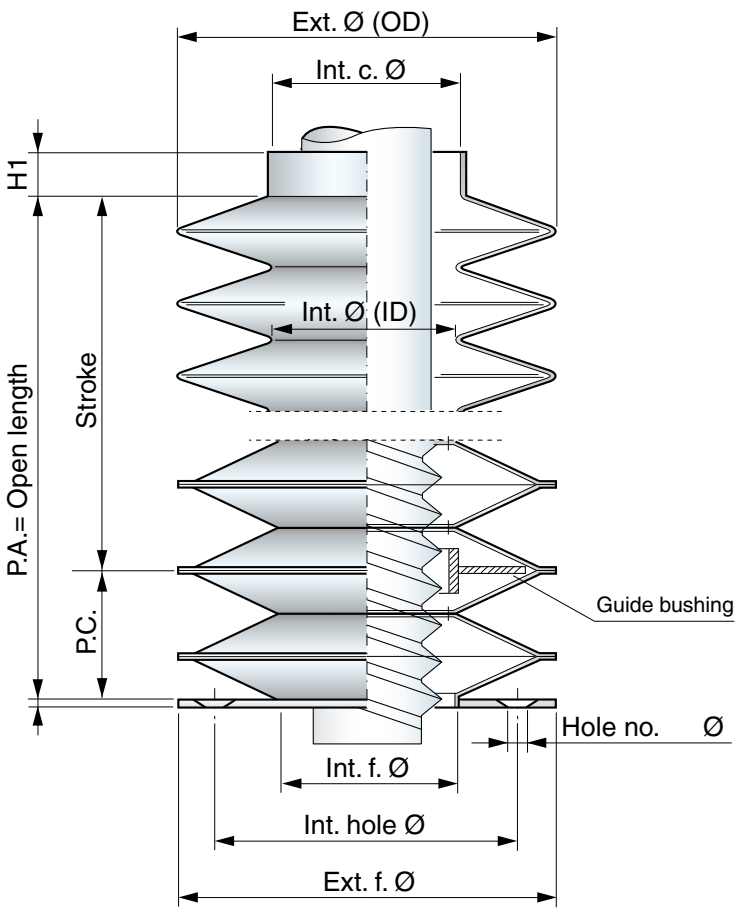
$$\textbf{NP}\text{= Number of folds} = \frac{\text{P.A.}}{\text{AP}} + 1$$

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

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

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

Questionnaire for Round Bellows



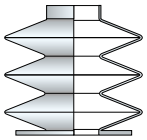
! Bellows type

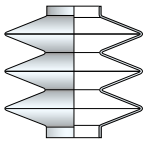
❑ Sewn

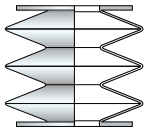
❑ Heat-formed

❑ Thermic-welded

! Fastening system

❑ A 

❑ B 

❑ C 

! Type of machine on which the ROUND BELLOWS is to be installed:

❑ METAL working machine
❑ MARBLE working machine
❑ GOLD working machine
❑ PAPER working machine
❑ FABRIC working machine
❑ GLASS working machine
❑ FOOD processing machine
❑ PHARMACEUTICAL processing machine
❑ AGRICULTURAL processing machine
❑ TANNING machinery
❑ CLAY working machine
❑ WOOD working machine

❑ Other .....

! Type of material falling on the bellows:

.....
.....
.....
.....

! Liquids to which the bellows will be exposed:

.....
.....
.....
.....
.....
.....

! Working position:

❑ Horizontal ❑ Vertical

! Temperature of material falling on the bellows:

..... °C

! Part to be protected:

❑ Stem or shaft:
Diameter ..... mm
❑ Screw:
Diameter ..... mm
Pitch ..... mm
❑ Ball screw:
Diameter ..... mm
Pitch ..... mm
RPM in rapid travel .....
❑ With longitudinal seam
❑ Other .....
.....
.....
.....
.....

! Company name: .....
Contact person: .....
Phone: ..... **E-mail:** .....
Quantity: .....
Annual demand: .....
Date: .....
Notes: .....

NOTE: The data fields and/or tables marked by ! are the least ones to be filled in order to give you a quotation. Please send an e-mail to info@pei.eu or a fax to +39 051 6464840.