



## D 1 Protex HD

Universal ePTFE Gasket Tape HD with higher density

### Characteristics

- Very adaptive to surfaces
- Chemical resistance
- Simple to install
- Very high cross section sealability
- Wide area of applications
- Does not stick on flanges
- Easy to remove
- Universal sizes reduce stock keeping

### Operating range

$p_{max}$ [bar]	Vacuum . . . 55
$t$ °C	-240 . . . +270
pH	0 - 14

Pressure: Vacuum up to 55 bar  
(according to the operational and/or assembly conditions)  
Temperature: Resistance of the ePTFE sealing material short term +310 °C.  
After first temperature exertion the bolts should be Re-tightened.

### Main application

- Pipe Columns
- Separation joints
- Machine Housing
- Glass- and Graphite-Devices
- Lined vessels
- Sight glasses
- Hand- and Manhole covers (Not TRD401)
- Ventilation and Air Condition Channels
- Steel and Plastic flanges
- Pipes and devices with highly aggressive chemicals
- Gearboxes

### Suitable for

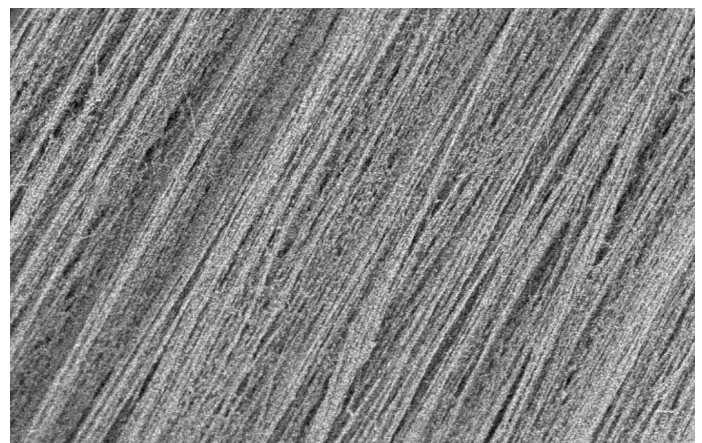
- Chemical industry
- Pharmaceutical industry
- Food industry
- General service

### Material

100% expanded PTFE  
Chemical resistant against all products with the exception of molten Alkalimetal and elementary Fluor

### Approvals

- FDA 21 CFR 177.1550 (PTFE)
- FDA 21 CFR 170.105 (adhesive)
- EG 1935:2004 EU 10/2011



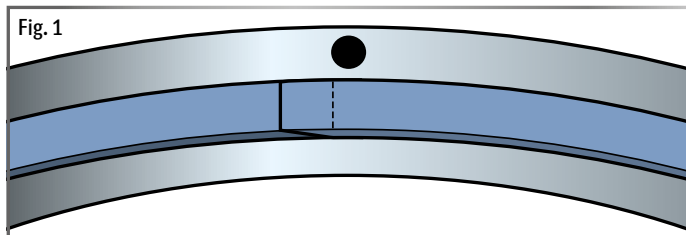
Microscopic view

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All technical information and advice is based on our experience and will be given most conscientiously but without any liability.  
Indication and figures are for guidance only and need to be examined by the user. All sizes are subject to manufacturing tolerances. We reserve the right to modify specifications at any time.  
Please note that the technical values cannot be used all at the same time in their maximum values.



## Installation



Clean flange surfaces  
Remove cover from adhesive side

Figure 1  
Fix sealing on seal surface  
Shaft and overlap ends in front of bolts  
Cutting - Conducting a skive cut see Fig. 3  
For HD sealing tapes >3 mm wide, shaft one end of the belt (Fig. 1 and 3).

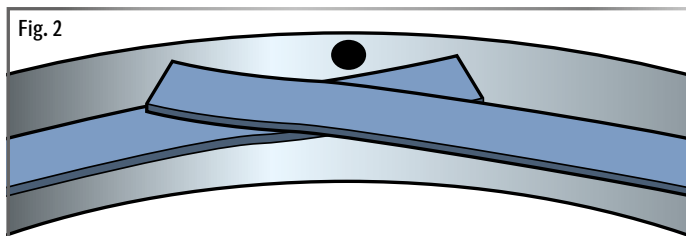


Figure 2  
NOTE: Only in gasket width 3 mm in thickness 0,3 and 0,7 mm  
For gaskets up to 3 mm, the ends can be crossed at a bolt hole (Fig. 2).

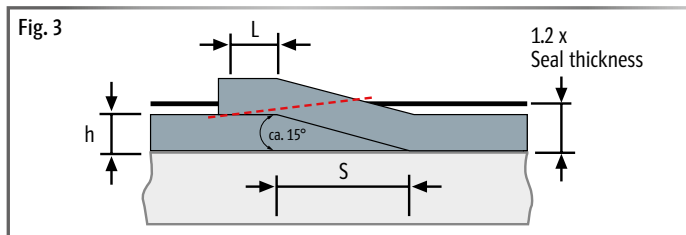


Figure 3  
Skive cut for tension sensitive components,  
skive cut section (S) = 2 x sealing width.  
Overlap length (L) approx. 2-3 x seal thickness (h).  
Overlap material at intersection with + 20% height addition (h x 1.2).  
The ends must be connected by an angle cut. Cut off the rest

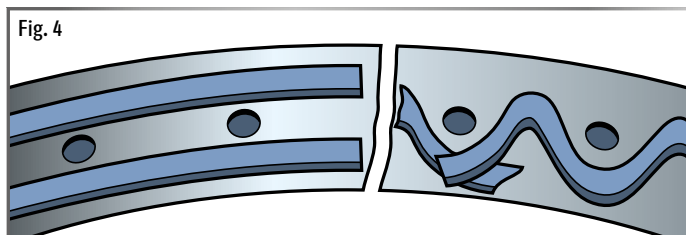


Figure 4  
Meandering installation along the pitch circle or additional supporting layer  
prevents flanges from tipping.

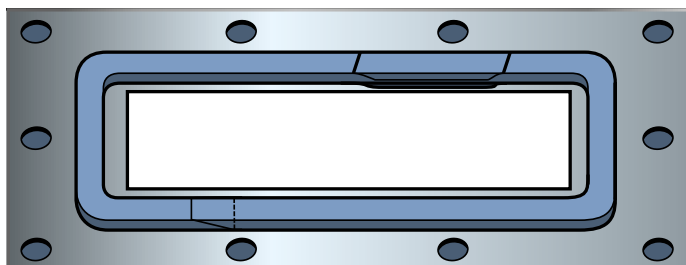


Figure 5  
Bedding or double layer in case of large unevenness.

Tighten bolt first hand tight, then crosswise in at least 4 steps evenly until the recommended torque is reached.  
To check and ensure permanent tightness, tighten again at the end of the assembly process.

### Form of delivery

Order-No.	Dimension width x height (mm)	Spoollength in meter			Seal area width
		10 m	25 m	50 m	
D1HD303	3 x 0.3		x	x	> 3 mm
D1HD307	3 x 0.7		x	x	> 3 mm
D1HD415	4 x 1.5		x	x	> 15 mm
D1HD425	4 x 2.5		x	x	< DN 500
D1HD645	6 x 4.5		x	x	< DN 1000
D1HD855	8 x 5.5		x	x	< DN 1500
D1HD1070	10 x 7.0	x	x		> DN 1500 or heavy worn sealing surfaces

Fig. 5

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