

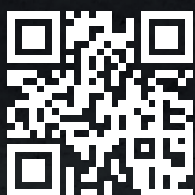


# Synoflex

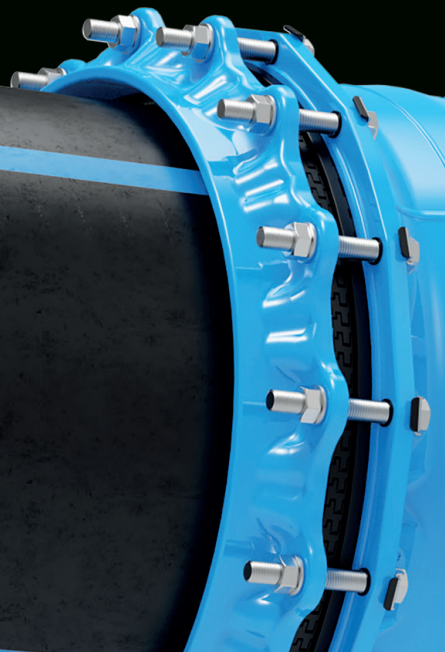
Restraint multi-range coupling  
for all types of pipes

made for generations.





Scan and see Synoflex  
in action.

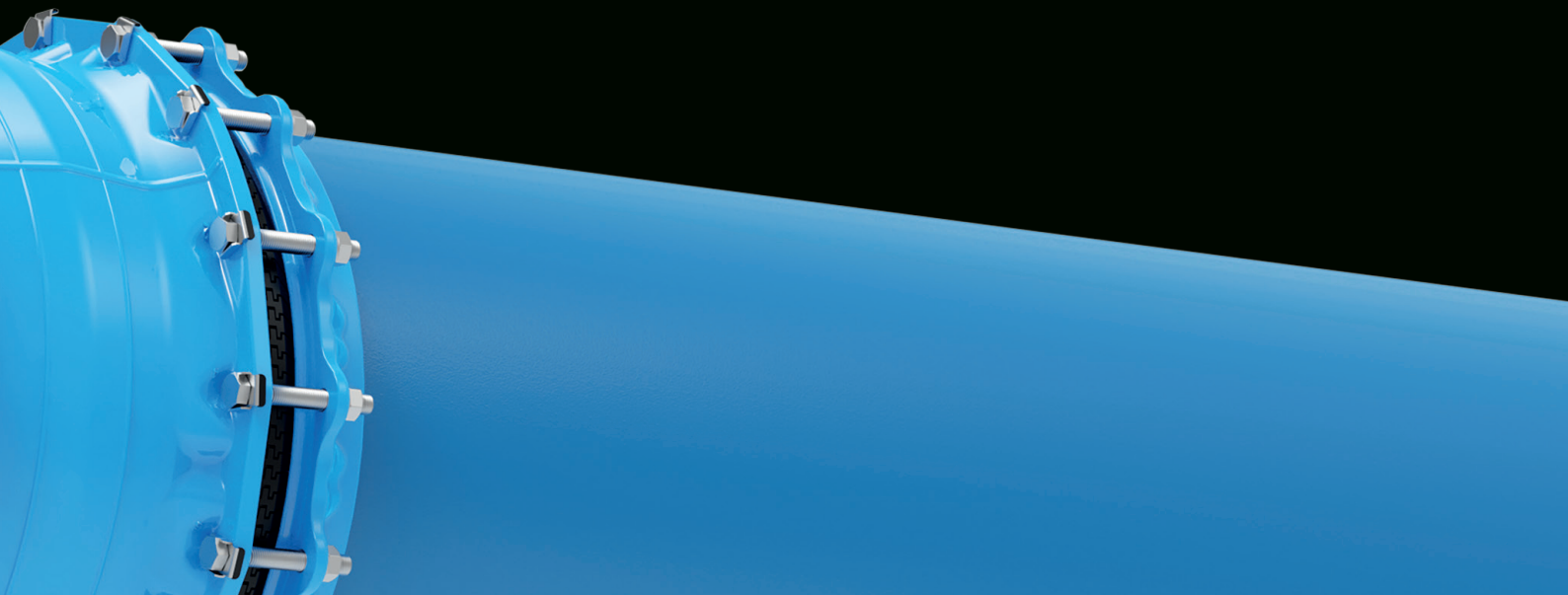


# The all-rounder coupling for your water supply

The Hawle Synoflex multi-range coupling allows you to connect all conventional pipe types securely, whether of **steel, cast and ductile iron, PE, PVC or asbestos cement**, while at the same time protecting them against corrosion.

This universal system offers a solution to a widespread problem: Different pipe materials with varying external diameters normally require a variety of couplings. This not only results in high storage and investment costs, but also leads to lengthy repairs if the wrong coupling is used. Thanks to Synoflex, this problem is a thing of the past as the pipe connection now spans a range of DN 40 to 600 mm. It also provides perfect corrosion protection for your pipe connections thanks to its Blue Shield coating.

Whether carrying out repairs or installing new pipelines, Synoflex guarantees a durable, reliable and cost-effective solution for your pipe connections.



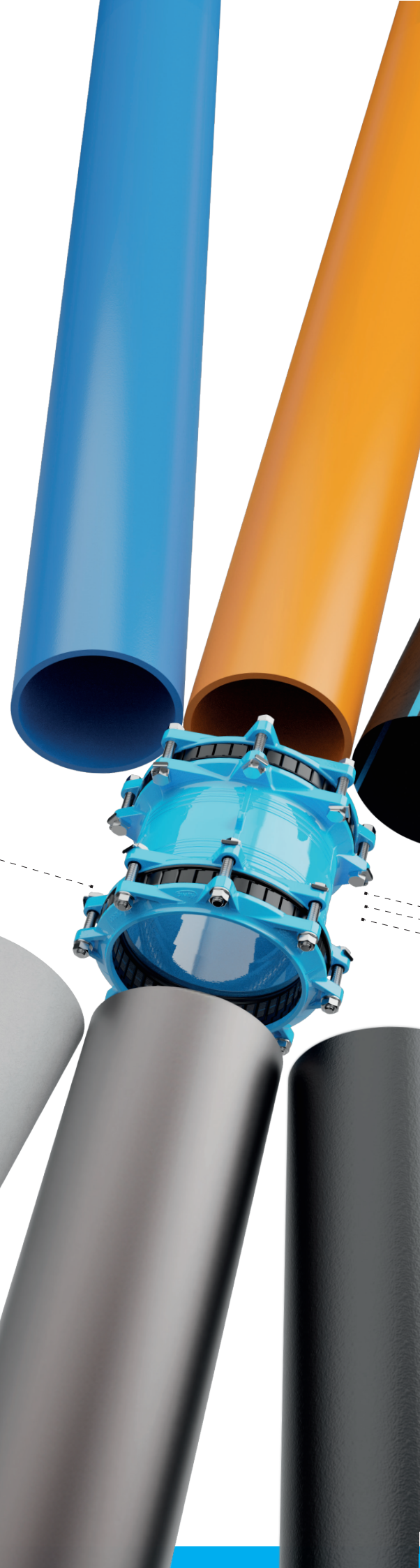


# Versatile, efficient, reliable



## Connect any pipe type with just one coupling.

Different pipe materials and diameters can often prove challenging as the appropriate fitting must be stocked in the warehouse to accommodate each of these pipe types should repairs be required. This results in high inventory levels and increased transportation costs. Thanks to Synoflex, these problems are now a thing of the past. The multi-range coupling enables you to connect all standard pipe types such as steel, cast and ductile iron, PE, PVC and AC securely and quickly. This means you can enjoy a significant reduction in your inventory and haulage costs and no longer have to invest in various multiple connections. What is more, you will save time on the construction site as the universal coupling makes installation quick and easy.







## Use the product again and again.

Many couplings can no longer be used once they have been installed as they have already been affected during the installation process. Synoflex solves this problem by means of its patented gripper design. This allows the coupling to be easily reused after fitting (e.g. for temporary repairs) without impairing its functionality. The grip elements remain securely connected to the ring elements and the coupling can be easily dismantled and reused. This reusability reduces the need for new couplings, saves costs and conserves resources.



## Avoid leaking pipe connections.

Leaking pipe connections are often the result of insufficient tensile strength. Synoflex solves this problem by using a special grip element design that is not too deeply engaging in the pipe, but still ensures an extremely secure and durable connection. The advanced tooth design made from sintered metal also offers greater security than solutions made from punched sheet metal or “sandpaper-like teeth”.



## Prevent leaks caused by corrosion.

Leakage caused by rust is a common problem with low-grade connectors. Synoflex puts an end to this: Blue Shield coating offers perfect corrosion protection as it is non-porous and adheres perfectly both internally and externally. The coating is GSK-certified and even exceeds these specifications thanks to Hawle’s proprietary Blue Shield technology. What is more, the ring elements are produced from plastic and the teeth from high-quality, sintered metal. This combination ensures that your connections will enjoy a long service life. Our 10-year warranty underlines the quality of the coating process and guarantees that leaks are a thing of the past.

# Your benefits at a glance



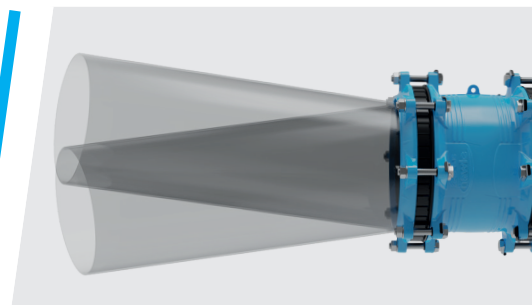
## A long service life.

Thanks to its non-porous structure and excellent adhesive properties, the Blue Shield fluidised bed Epoxy powder coating provides optimum corrosion protection both internally and externally. When combined with grip elements manufactured from robust plastic and metal parts of corrosion-resistant coated steel, the result is a particularly long service life.

## A wide range of flexible applications.

Synoflex adapts flexibly to any installation environment and can accommodate angle compensation of up to  $\pm 8^\circ$ .<sup>\*</sup> It is suitable for all pipe types and diameters from DN 40 to DN 600, and the bolts can be rotated through  $180^\circ$ .

<sup>\*</sup> Pressure testing according to EN 14525



## 10-year factory warranty

Thanks to our comprehensive 100% quality controls, an innovative production process and our uncompromising commitment to quality, we are able to offer a 10-year warranty on all Hawle Synoflex products.

## Minimised risk of injury

The new lifting aids designated for PN 10 and PN 16 enable flanges of larger dimensions to be lifted safely, significantly reducing the risk of injury to the installers.



## Quick and easy to install

In the case of small dimensions, the Synoflex ring quickly adapts to the pipe by simply pressing the quick lugs fastening device. The bolt connection allows the bolts to be tightened easily using only one hand.



## A sustainable product

Synoflex is produced in Europe, which ensures short transportation distances and minimises its CO2 footprint. Being designed for reuse, it reduces waste and the need to purchase new products. Efficient processes and environmental ISO certification complement the sustainable characteristics of this multi-range coupling.

## Intensive testing

Synoflex has been subjected to extensive testing to ensure maximum quality and reliability. In addition to testing for compliance with industrial standards, we also carry out special tests that ensure our products far exceed these requirements.

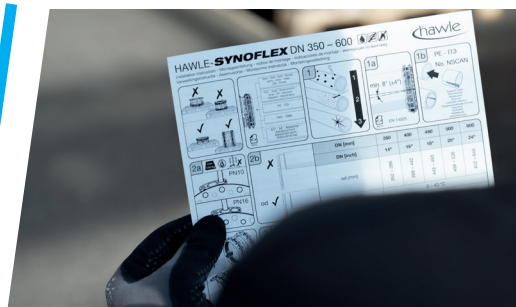


## One product for both pressure ratings

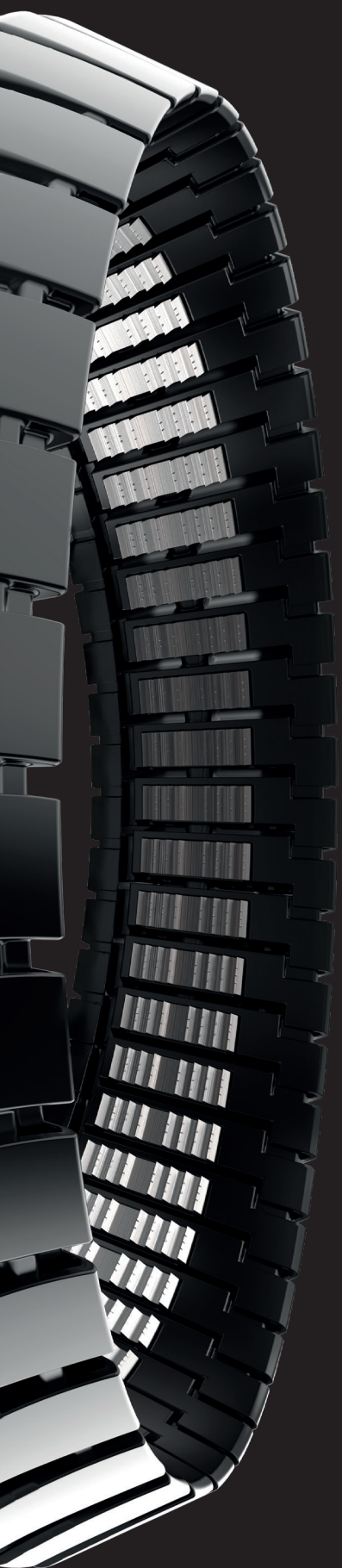
Synoflex is suitable for pressure ratings PN 10 and PN 16. This allows you to cater for different pressure requirements using a single product. As a result, both storage space and investment costs are reduced since there is no longer a need to purchase a variety of connecting pieces.

## Always installed correctly

The product is supplied with a set of printed installation guidelines which the fitter can refer to on site for all relevant information. In addition, the partner section of our website hawle.com features 3D data for download, which will help you to plan your projects with greater precision.







# Guaranteed reusable

An outstanding feature of the Synoflex multi-range coupling is its reusability. Couplings are often damaged when being positioned during the course of repairs as they are repeatedly opened and closed. The patented gripper design of the Synoflex coupling features innovative grip elements that can be removed effortlessly from the pipe and reused without the teeth becoming detached from the support element.







As Synoflex is reusable, there is less need to purchase a stream of new couplings or to replace the grip elements. This saves you both time and money. With this multi-range coupling, you are investing in a solution that is not only reliable and durable, but also one that minimises the impact on the environment by reducing product consumption.



The design of the teeth may vary depending on the manufactured size.

# From DN 40 to DN 600



DN	MOP (PN)	Adjusting range Synoflex Socket	 7994 Synoflex flange E-piece / ER-piece	 7974 Synoflex connector	 7974 Synoflex reducer	 7975 SYNO2000 connector U-piece	 7976 SYNOZAK connector U-piece		 7980 Synoflex end cap		
			Flange	Socket	Socket	Socket	Synoflex Socket	System 2000 Socket	Synoflex Socket	System ZAK Socket	Socket
40	16	d 46 – 58			DN 40	DN 40			DN 40	ZAK 46	
50		d 56 – 71	DN 50	DN 50	DN 50	DN 50	DN 50	da 63	DN 50	ZAK 46 ZAK 69	DN 50
65		d 71 – 88	DN 65	DN 65	DN 65	DN 65 DN 80					DN 65
80		d 85 – 105	DN 80	DN 65 DN 80 DN 100	DN 80	DN 65 DN 80 DN 100	DN 80	da 90			DN 80
100		d 104 – 132	DN 100	DN 80 DN 100 DN 125	DN 100	DN 80 DN 100 DN 125 DN 150	DN 100	da 110 da 125			DN 100
125		d 131 – 160	DN 125	DN 100 DN 125 DN 150	DN 125	DN 100 DN 125 DN 150					DN 125
150		d 155 – 192	DN 150	DN 125 DN 150 DN 200	DN 150	DN 100 DN 125 DN 150 DN 200	DN 150	da 160 da 180			DN 150
200		d 198 – 230	DN 200	DN 150 DN 200 DN 225	DN 200	DN 150 DN 200 DN 225 DN 250	DN 200	da 200 da 225			DN 200
225		d 230 – 260			DN 225	DN 200 DN 225 DN 250					DN 225
250		d 265 – 310	DN 250	DN 200 DN 250	DN 250	DN 200 DN 225 DN 250 DN 300	DN 250	da 250 da 280			DN 250
300		d 313 – 356	DN 300	DN 300	DN 300	DN 250 DN 300	DN 300	da 315			DN 300
350		d 352 – 396	DN 350	DN 350	DN 350	DN 300* DN 350*	DN 350*	da 355*			DN 350*
400		d 398 – 442	DN 400	DN 400	DN 400	DN 350* DN 400*	DN 400*	da 400*			DN 400*
450		d 448 – 485	DN 450	DN 450	DN 450	DN 300* DN 350*					
500		d 498 – 535	DN 500	DN 500	DN 500						
600		d 602 – 640	DN 600	DN 600	DN 600						

\* Pressure rate: PN10

# The all-rounder coupling



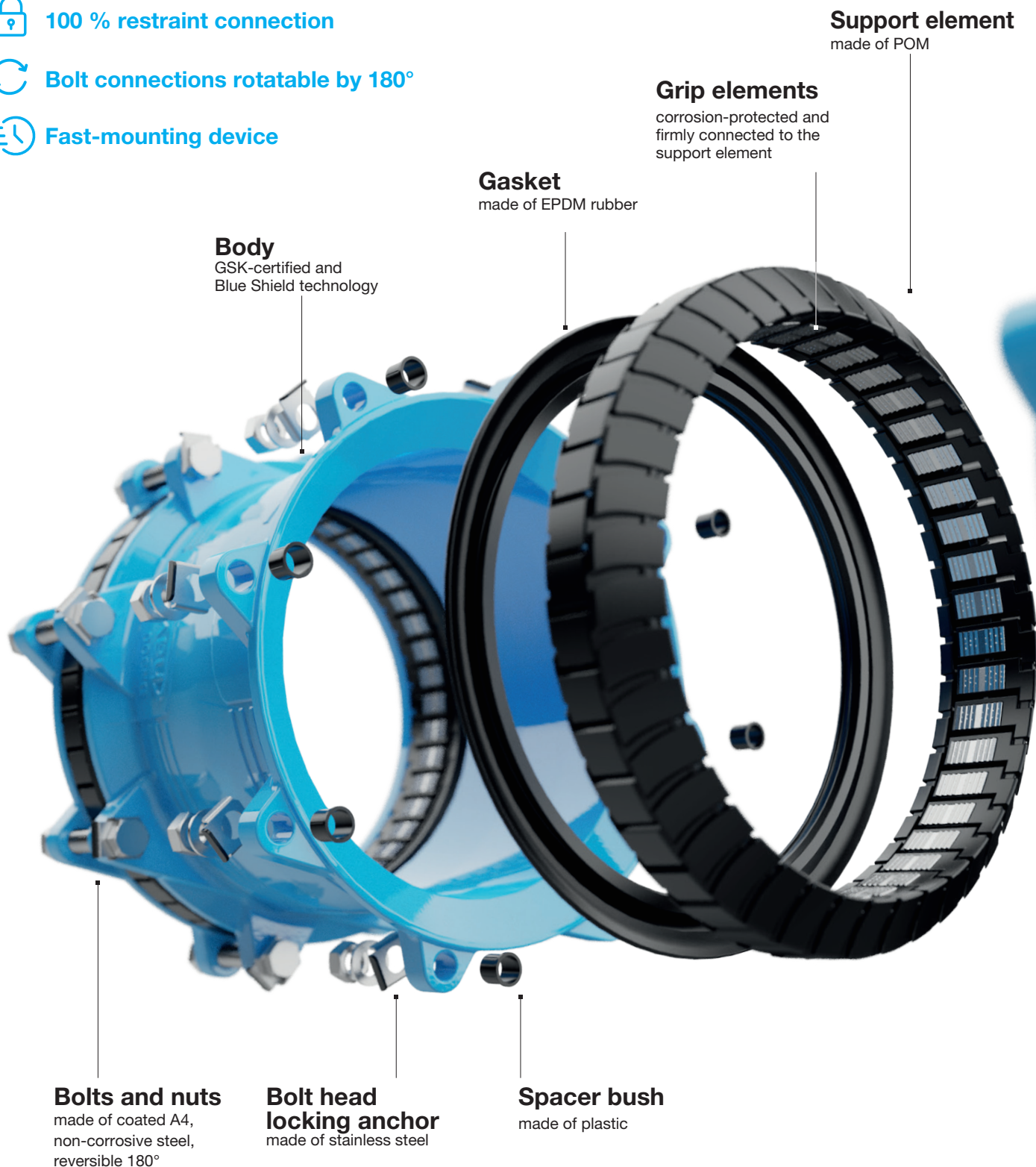
**100 % restraint connection**



**Bolt connections rotatable by 180°**

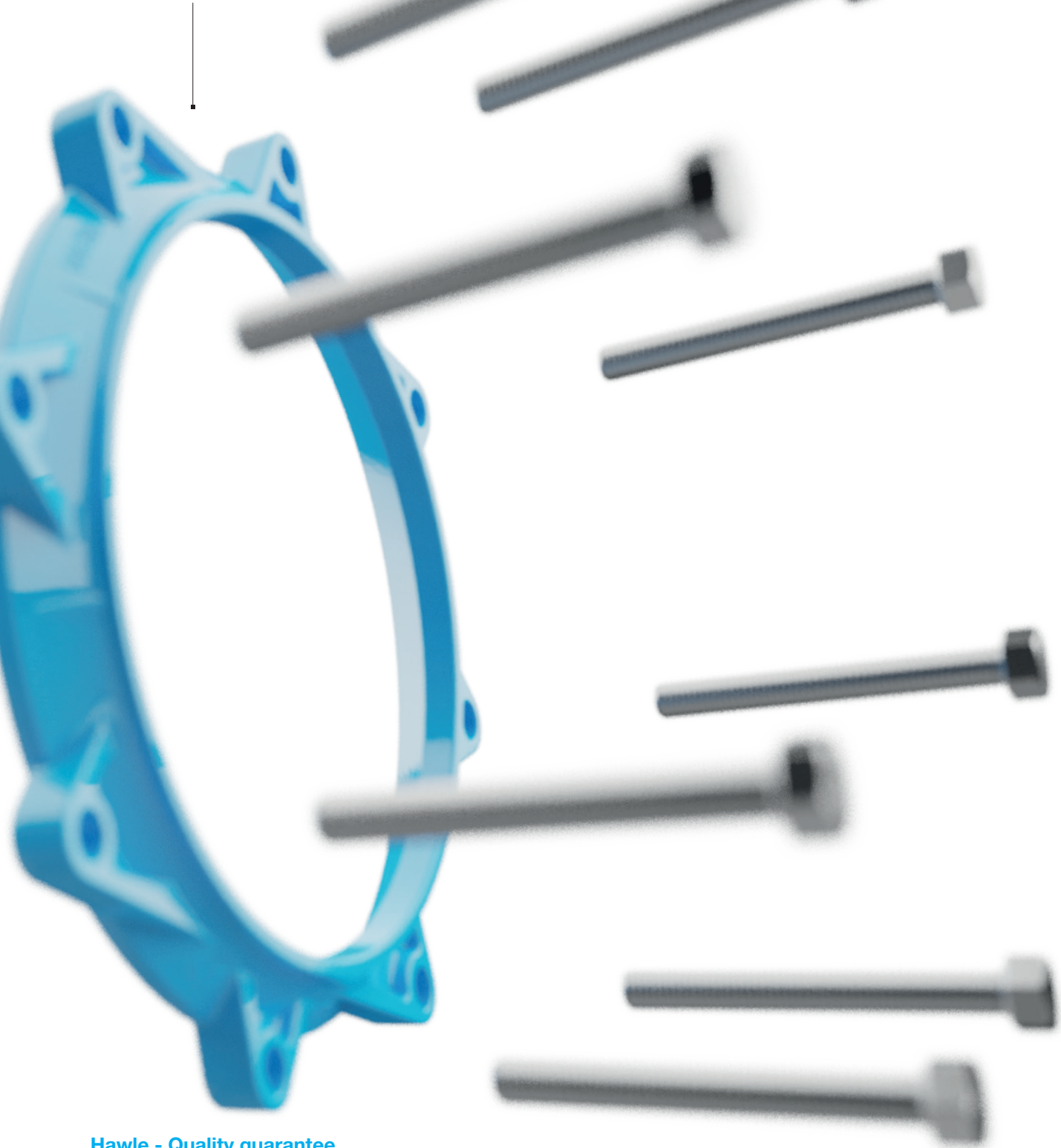


**Fast-mounting device**





**Lock ring**  
GSK-certified and  
Blue Shield technology



**Hawle - Quality guarantee**



Warning! A restraint connection between Synoflex and asbestos cement pipes can't be confirmed.  
Removal of the grip ring is not necessary.



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