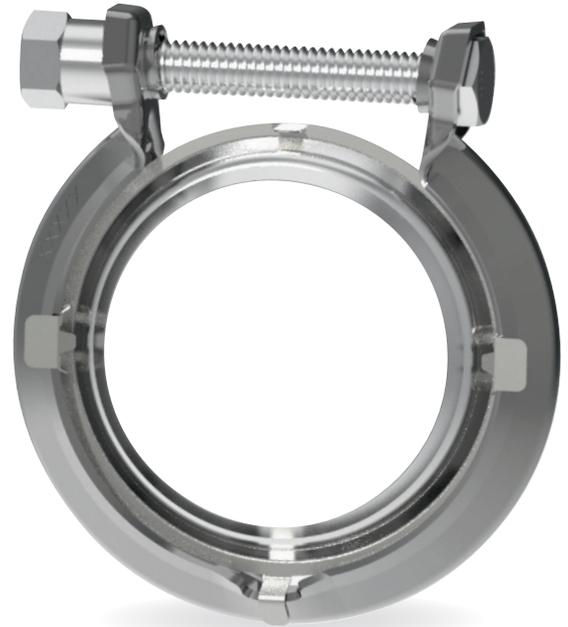


# NORMACONNECT® VPP Bi-Cone with Sure Seal Technology



# High-performing and cost-efficient clamp for high temperature 90° cross section V flange applications

In the ongoing transformation towards E-Mobility, the ICE market is consolidating as OEMs reduce their engine portfolio to fewer platforms with extended lifetimes. However, ICE efficiency technology remains crucial for the transition phase. The VPP Bi-Cone Sure Seal clamp is designed for high-temperature 90° cross-section V flange applications, securing robust connections where formed flanges, metal beaded gaskets, and low bending forces (up to 50 Nm) are dominant. It can also be used in new application fields such as high-pressure cooling systems.



## This is what you will love!

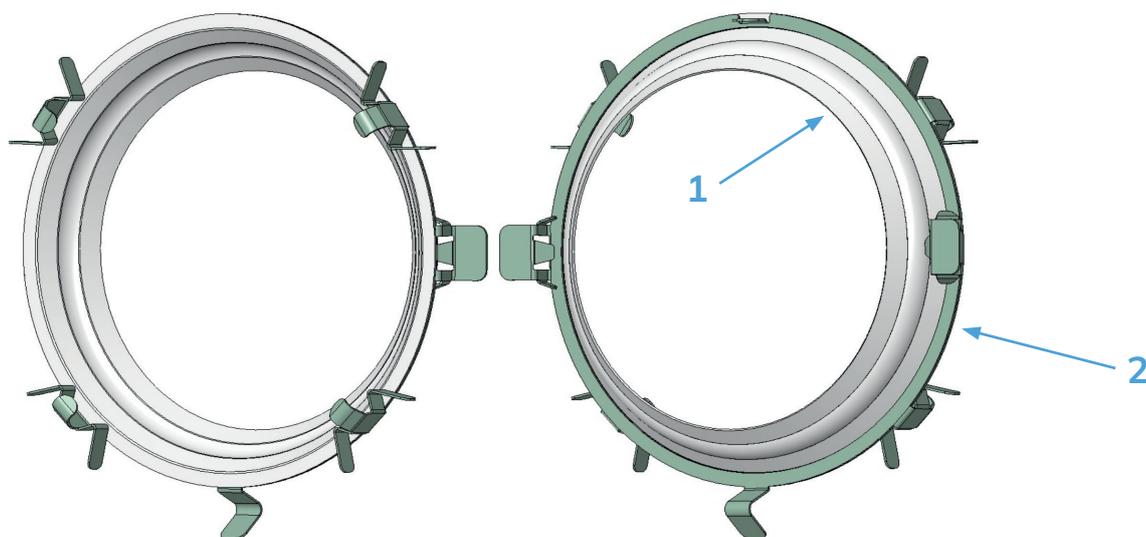
- ✓ **Ease of Assembly:** Single-operator assembly – no additional support jigs or personnel required. No need for additional pre-assembly tools. Approximately 20% reduction in assembly time compared to loose gasket designs.
- ✓ **Cost-Efficient:** Cost optimized by allowing adjustment of gasket material thickness without affecting the integration function.
- ✓ **Ideal for 90° Flanges:** Perfect for easy and secure connection of two conical flanges (90°) in the front section of the exhaust system (before/after gas treatment).
- ✓ **Leakage Performance:** Designed to provide ease of assembly without compromising on leakage performance.
- ✓ **Angular Compensation:** Allows possible angular compensation up to 5° due to the 90° flange and absence of a centering feature.
- ✓ **Varied Sizes:** Available in multiple sizes: Ø73, Ø76, Ø81, Ø91, Ø96, Ø101, Ø116.

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## This is what you will love!

- ✓ Front section of the exhaust system (before / after gas treatment)
- ✓ Turbo - Catalyst outlet – Catalyst - Exhaust

## How it looks:



- 1 Gasket (grey) – provides sealing
- 2 Carrier ring (green) – provides:
  - Integration
  - Pre-assembly function on either joint side

## Technical features at a glance:

Diameter range:	Ø 073, 076, 081, 091, 096, 101, 116 mm
Maximum temperature:	+650 °C (pipe)
Tightening torque:	15 Nm +/- 10%
Axial load:	11 kN (at nominal flange)
Leakage rate:	less than <0.25 lt/min @ 0.3 Bar
Recommended material:	SUS 321 (EN 1.4541): Clamp SUS 301(1.4310): Gasket

You might also be interested in these products:

### NORMACONNECT® V-QRC



- Quick Release Closure (QRC) for rapid, single-handed clamp
- Adaptable to flanges with wider tolerances compared to VPP Clamps
- Available up to diameter 300 mm

### NORMACONNECT® VPP Bridge



- Standard version of high-performance profile clamp
- Quick and easy installation due to spring bridge

### Why V-Clamps from NORMA Group?

In contrast to bolted flange connections, our V-Clamps can be installed and removed quickly. Only one screw needs to be tightened for a secure flange connection, saving time and money with every installation. In addition to this, every NORMA stainless steel profile clamp is resistant to corrosion and extreme temperatures. All NORMA connections are perfectly adapted to the flange and tested against OEM specifications for tightness and durability.



Do you have questions or require a personal consultation?

Feel free to contact us: [info@normagroup.com](mailto:info@normagroup.com)

Or visit our website for more information about our solutions: [www.normagroup.com](http://www.normagroup.com)

