All-rounder
For the first time, a coupling has been developed, which offers both the safety advantages of a self-venting coupling and the optimised flow rates of the ultra high flow valve.

Accident Prevention / Occupational Safety
Safety self-venting couplings ensure greater occupational safety. As such, for example, pressure-free disconnection prevents the dangerous whip effect.

Self-venting System
The first time the sleeve is pushed back with the plug fixed, only the compressed air escapes. Only when the sleeve is operated again is the second locking system released and the connection disengaged.

Flow Rate
The ultra high flow valve allows high performance with a compact design. With an input pressure of 6 bar, the coupling achieves a flow rate of 2,020 l/min with a minimal pressure drop of 0.5 bar.

Rectus 1600KE Series
New generation of safety self-venting couplings
The new 1600KE series, which is pending patent, is a combination of tried and tested Rectus safety self-venting technology and the high performance valves of the 1600 / 1625 series. The ultra high flow valve allows flow rates that were previously impossible in this class.

The optimised self-venting function with markedly lower noise production rounds off the profile of this premium product. All this plus the robust, all-metal structure and the standard Euro profile make the 1600KE series the highlight of our range in the area of pneumatics and the ideal replacement for many industrial applications.
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Flow Rate
The ultra high flow valve allows high performance with a compact design. With an input pressure of 6 bar, the coupling achieves a flow rate of 2,020 l/min with a minimal pressure drop of 0.5 bar.
The 1600KE series is a safety coupling with a self-venting system. When the sleeve is pulled back, the plug is released yet remains locked in. The coupling valve closes. The compressed air can now escape from the plug (hose). By operating the sleeve again in the direction of the plug, the second locking system is released. Only now can the connection be disengaged.

The system is compliant with the requirements of ISO 4414, DIN EN 983.

Advantages
- Compatible with common profiles (standard Euro profile).
- Self-venting takes place during disconnection – no risk of pressurised hoses being tossed around. High flow performance combined with compact design.

Working Temperature*
-20°C up to +100°C (NBR) depending on the medium.

*At a temperature below -20°C and above +100°C special seals are available on request.

Packed full of the best we have to offer.

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The nominal diameter is 48 mm², which provides a working pressure of up to 12 bar, maximum static working pressure with safety factor of 4 to 1.

Material:
- Connection A:
  - Male Thread: Brass, Nickel Plated
  - Female Thread: Steel, Zinc Plated, Thick-film passivated
  - Hose Barb: Brass
- Coupling/Plug:
  - Male Thread: AISI 301, AISI 420
  - Female Thread: Standard Steel, Hardened, Zinc Plated
  - Hose Barb: NBR

Technical Description:
The 1600KE series is a safety coupling with a self-venting system. When the sleeve is pulled back, the plug is released yet remains locked in. The coupling valve closes. The compressed air can now escape from the plug (hose). By operating the sleeve again in the direction of the plug, the second locking system is released. Only now can the connection be disengaged.

Advantages:
- High flow performance
- Self-venting during disconnection
- No risk of pressurised hoses being tossed around
- Robust, all-metal structure

Working Temperature:
- Air: -20°C up to +100°C (NBR) depending on the medium.
- *At a temperature below -20°C and above +100°C special seals are available on request.

Safety Note:
- Reliable functioning can only be guaranteed in conjunction with original Rectus plugs made of steel.

| Connection A | Male Thread | Female Thread | Hose Barb | | | | Version | Part Number |
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Safety self-venting couplings ensure greater occupational safety. As such, for example, pressure-free disconnection prevents the dangerous whiplash effect.

The first time the sleeve is pushed back with the plug fixed, only the compressed air escapes. Only when the sleeve is operated again is the second locking system released and the connection disengaged.

The ultra high flow valve allows high performance with a compact design. With an input pressure of 6 bar, the coupling achieves a flow rate of 2,020 l/min with a minimal pressure drop of 0.5 bar.

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New generation of safety self-venting couplings

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