

Hose Connectors



High-Pressure Hose Connectors



Product Overview
VOSWINKEL Hose Connectors



VOSWINKEL Hose Connectors

The VOSWINKEL **ECOVOS** system of hose connectors enables crimping of many different hose types with only one hose insert profile, which results in an immense reduction of endless product varieties.

The use of identical parts with **ECOVOS** means a reduction of individual components by approximately 45 per cent.

ECOVOS⁺, the mobile interlocking protection from VOSWINKEL, turns standard ECOVOS components into interlock hose connectors in no time at all, thereby saving inventory costs and increasing economical efficiency.

For larger requirements, **ECOVOS** hose connectors with interlocking protection can also be manufactured as single parts with integrated securing rings.

The **ECOVOS VA** range provides the system of hose connectors in Stainless Steel.

MULTIVOS is the name of the VOSWINKEL range of high-pressure hose connectors which offers customers the opportunity to use two types of hoses (R15 and 4SH) with only one hose insert profile.

POWERVOS is an advanced development of the **MULTIVOS** range. This product series was designed especially for hammer/breaker operation in construction equipment for use in quarries.

POWERVOS is especially designed and constructed using high-performance materials to withstand high impulses. The hose connectors are suitable for use with hose types 4SH/AS and R15/AS.





VOSWINKEL Zinc/Nickel Coating *Δplus*



- Layers**
- Sealing
 - Passivation
 - Zinc/Nickel
 - Steel

The VOSWINKEL Zinc/Nickel Coating *Δplus* offers excellent surface protection – even after transport, handling and assembly. This was confirmed by testing in the salt-spray chamber according to DIN EN ISO 9227.

Users across all industries and applications benefit from sophisticated technology, which has been developed for and used by the very demanding automotive industry for many years now and that is already the proven standard for a large proportion of VOSWINKEL hose connectors since 2007.

- At least 720 hours (**before crimping**) and 500 hours (**after crimping**) resistance to red rust / base metal corrosion in the salt-spray chamber according to DIN EN ISO 9227
- White rust occurs only by way of a slight grey haze
- Free of hexavalent chrome Cr(VI)
- ELV compliant according to 2000/53/EC (End of Life Vehicles Directive)
- REACH compliant according to 1907/2006/EC (Registration, Evaluation, Authorisation and Restriction of Chemicals)
- RoHS compliant according to 2002/95/EC (Restrictions of the Use of Hazardous Substances)
- Appealing colour scheme with a bright semi-gloss surface finish
- Significantly reduced tendency to corrosion by contact with other metals (such as Aluminium and Stainless Steel)
- Improved abrasion resistance due to the ductility / plastic deformability of the coating
- Little to no risk of triggering allergies – nickel release is down to only a fraction of the statutory limits relating to objects which come into direct and prolonged contact with the skin (independent results of the reference test method according to DIN EN 1811 are available on request)
- Good paint adhesion properties
- Resistance against all commonly used hydraulic media





Carbon Steel Hose Connectors

ECOVOS™

The VOSWINKEL **ECOVOS** system of hose connectors enables crimping of many different hose types (1SN, 2SN, 1ST, 2ST, 1SC, 2SC, 1SN-K, 2SN-K, 2TE, 3TE, 4SP, SPC3 and 4SH) with only one hose insert profile, which results in an immense reduction of endless product varieties.

The use of identical parts with **ECOVOS** means a reduction of individual components by approximately 45 per cent.



Skive and Non-Skive Swage Ferrules for Braided and Spiral Hose, Compact Braided Hose and Hose with Textile Insert



Straight Inserts in all common connection types



45° Elbow Inserts in all common connection types



90° Elbow Inserts in all common connection types

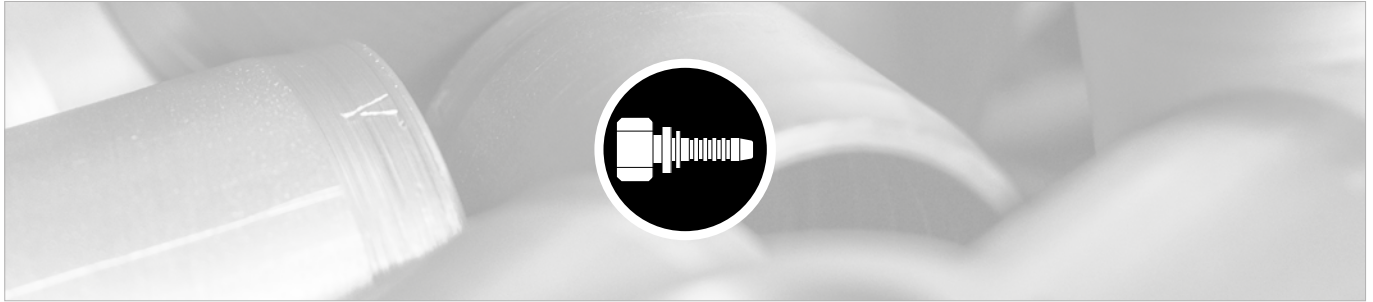
ECOVOS VA Stainless Steel Hose Connectors

ECOVOS™ VA

The **ECOVOS VA** range provides the components in Stainless Steel and enables crimping of many different hose types (1SN, 2SN, 1ST, 2ST, 1SC, 2SC, 1SN-K, 2SN-K, 2TE, 3TE, 4SP and SPC3) with only one hose insert profile.

Swage Ferrules, and Hose Inserts (Straight, 45° and 90°) are available in all common connection types.





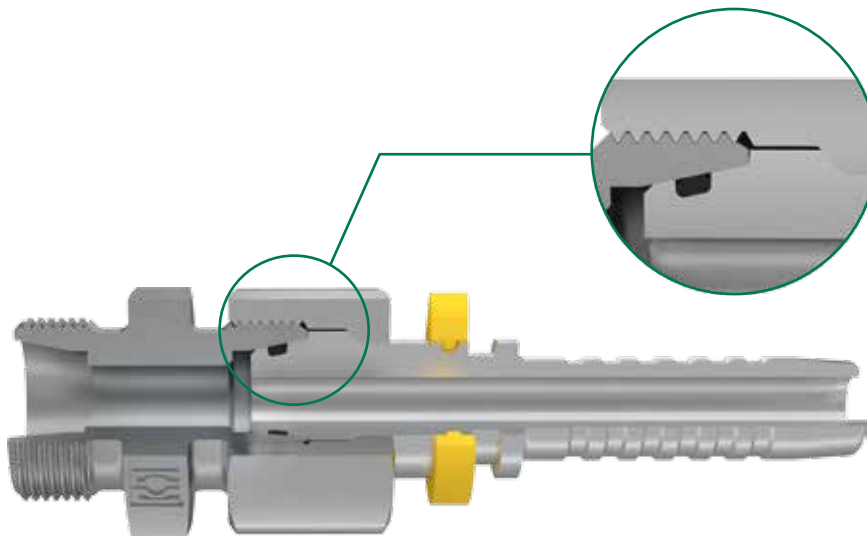
ECOVOS Hose Connectors with Block Stop

- Permanent plastic deformation of both the 24° cone and the 24° taper caused by over-tightening during assembly and re-assembly will be prevented
- The necessary pretension is present and thus the risk of leakage will be avoided
- Prevents potential problems caused by threaded connections made from different materials (with different tensile strengths) being assembled using identical parameters

ECOVOS™



Learn more:
www.stauff.com



ECOVOS+ Interlocking Protection for Hose Connectors

ECOVOS+, the mobile interlocking protection from VOSWINKEL, turns standard ECOVOS components into interlock hose connectors in no time at all, thereby saving inventory costs and increasing economical efficiency.

For larger requirements, **ECOVOS** hose connectors with interlocking protection can also be manufactured as single parts with integrated securing rings.

ECOVOS+



Standard ECOVOS
Hose Insert

Mobile Interlocking
Protection Ring

ECOVOS+
Swage Ferrule

Hose

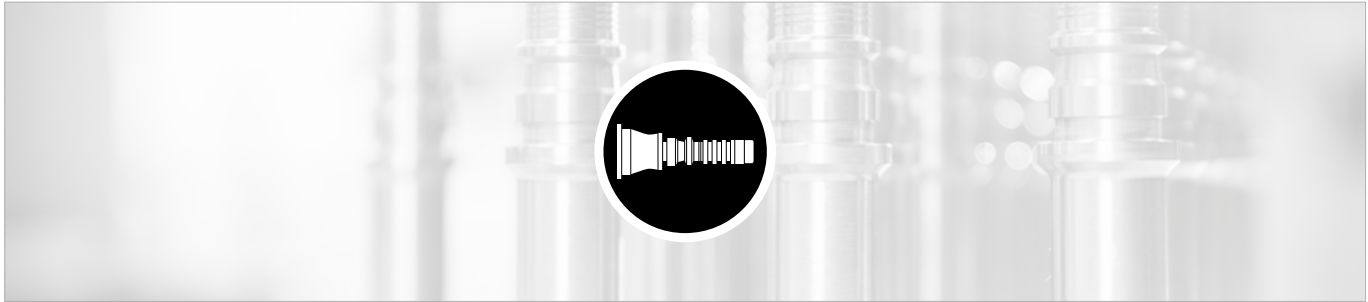


ECOVOS+ Hose Insert
with Integrated Interlocking Protection Ring

ECOVOS+
Swage Ferrule

Hose





High-Pressure Carbon Steel Hose Connectors

MULTIVOS™

MULTIVOS is the name of the VOSWINKEL range of high-pressure hose connectors which offers customers the opportunity to use two types of hoses 4SH/4SP according to EN 856 and R15 according to SAE 100 R15 with only one hose insert profile.



Skive Swage Ferrule for Spiral Hose



Straight Inserts in all common connection types



45° Elbow Inserts in all common connection types



90° Elbow Inserts in all common connection types

High-Pressure Carbon Steel Hose Connectors

MULTIVOS™8

The **MULTIVOS-8** range provides the system of Swage Ferrules and Hose Inserts with defined connection styles AGJ, SFL (3000 PSI), SFS (6000 PSI) and DKOJ in the Nominal Size DN 51 for Spiral Hose R15 according to SAE 100 R15.





High-Pressure High-Performance Steel Hose Connectors

POWERVOS is an advanced development of the **MULTIVOS** range. This product series was designed especially for hammer/breaker operation in construction equipment for use in quarries.

POWERVOS is especially designed and constructed using high-performance materials to withstand high impulses. The hose connectors are suitable for use with hose types 4SH/AS and R15/AS.

POWERVOS™



Straight Insert with Female Metric Nut Thread and 24° Taper / O-Ring; UN/UNF Thread and 74° Conical Bore; Female BSPP Thread and 60° Taper / O-Ring

Test Mandrels

Checking the Operability of Crimped Hose Connectors by Measuring the Reduction of the Nipple Diameter.

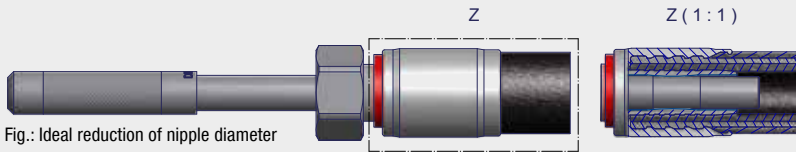


Fig.: Ideal reduction of nipple diameter

DORNVOS™



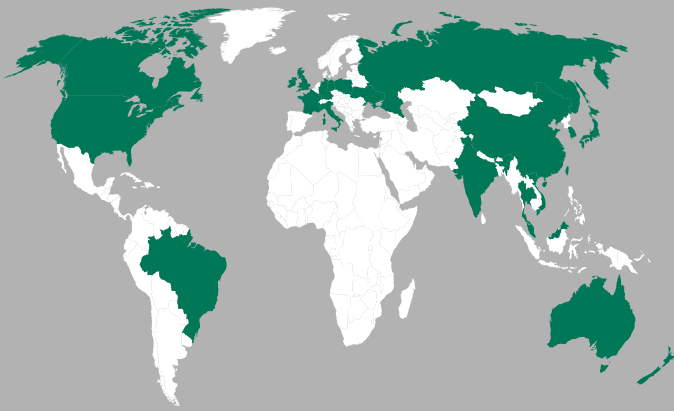
Pulse and Pressure Testing

VOSWINKEL is not only able to realize pulse tests according to ISO 6803 but also pursuant to ISO 6802 (OMEGA TEST), ISO 8032 (HALF OMEGA TEST) with dynamic alternating bending loads, and there is also the opportunity to realize the well known KOMATSU TEST.

These dynamic tests can be performed according to customers' requests.

Standard values and other information on pulse test methods can be found in the standards SAE J343, ISO S1436, ISO 8032, ISO 6802 and ISO 6803.



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