



2-Component Cartridges

for Adhesives
and Mortars

The unique Superior piston technology



SUPERIOR
– self bleeding pistons –

Überlegenes Design

Aufgrund des überlegenen Designs bieten die patentierten "Superior-Kolben" erhebliche Vorteile sowohl für den Abfüller als auch den Anwender: Sichere und um bis zu 30 % schnellere Entlüftung sowie verlängerte Produktlebensdauer dank des verbesserten Abdichtungsverhaltens.*

Das Ergebnis – ein deutlicher Mehrwert der Ritter-Kartuschen.

Improved features

By its design features, the patented* "Superior-piston" generation offers significant advantages for the filler as well as for the user with regard to air-free filling and up to 30 % shorter venting time.

The optimized design stands for extended shelf-life due to improved tightness whereas the easy and safe handling increases efficiency and system performance of the Ritter cartridge.



For improved tightness and extended shelf-life.

Flat surface without pin:
avoids leakage and air entrapment.

Patented "Superior" system for safer
and faster venting.



Die Fertigkeit liegt im Detail

Die Ritter GmbH hat ihr breites Sortiment an 2K-Kartuschen erneut ergänzt. Auch das Angebot an Mischern für hochviskose Klebstoffe wurde erweitert und die Auslaufgestaltung marktrelevanter ZKK-Kartuschen weiter im Detail optimiert.

Zum Vorteil der schnelleren und sicheren Entlüftung werden sukzessive weitere Kartuschen mit unserem patentierten „Superior-Kolben“ ausgestattet.

Gerne beraten wir Sie dabei, auch für Ihren Bedarf an 2K-Kartuschen die richtige Produktauswahl zu treffen.

Advance In Detail

At Ritter, we have further extended and improved our range of 2-component cartridges and mixing nozzles. New performing mixers suited for highly viscous adhesives have been added to the portfolio.

The outlet design at some Integral Side-by-Side cartridges has been optimized. More cartridges feature the beneficial, patented Superior pistons which ensure faster and safer air bleeding.

Let's discuss your requests and requirements in order to make Ritter find the right product choice for your application.

Andreas Ruf,
VP Sales



Coax 150 ml

| Article | Volume in oz* | Mixing ratio | Material cartridge | Design outer piston | Design inner piston | Reference |
|--------------------|----------------|---------------------|--------------------|--|------------------------|---------------|
| Artikel | Volumen in oz* | Mischungsverhältnis | Material Kartusche | Ausführung Außenkolben | Ausführung Innenkolben | Bestellnummer |
| Coax 150 ml, white | 5 | 1:1 | PP | solid | solid | 16145-0002 |
| Coax 150 ml, white | 5 | 2:1 | PP | weldable | solid | 16161-0001 |
| Coax 150 ml | 5 | 10:1 | PA | superior | valve | 16176-0015 |
| Coax 150 ml | 5 | 10:1 | PP | superior | valve | 16170-0010 |
| Lurch Stößel | | 1:1 / 2:1 | | lurch for usage in a standard caulking gun | | 14103-0001 |
| Lurch Stößel | | 10:1 | | | | 14103-0102 |

Coax 310 ml

| Article | Volume in oz* | Mixing ratio | Material cartridge | Design outer piston | Design inner piston | Reference |
|--------------------|----------------|---------------------|--------------------|------------------------|------------------------|---------------|
| Artikel | Volumen in oz* | Mischungsverhältnis | Material Kartusche | Ausführung Außenkolben | Ausführung Innenkolben | Bestellnummer |
| Coax 310 ml, white | 10 | 1:1 | PP | solid | solid | 16199-0002 |
| Coax 310 ml, white | 10 | 2:1 | PP | solid | solid | 16213-0000 |
| Coax 310 ml | 10 | 10:1 | PA | superior | valve | 16136-0016 |

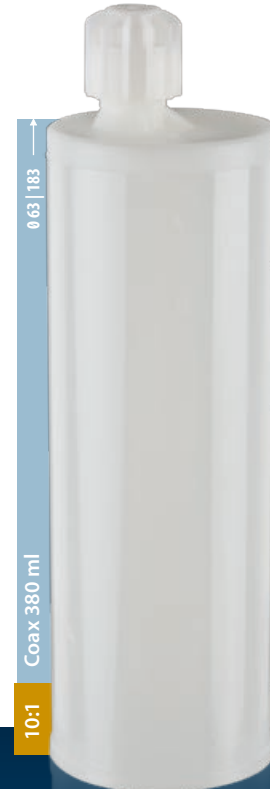


"The Original"

The Original Ritter Coax Cartridges offer safe and easy handling during filling and application. Our cartridges feature various piston designs such as the patented state-of-the-art "superior" piston, which reduces the venting time and increases productivity during the filling process. Solid pistons, weldable pistons and valve pistons are also available.



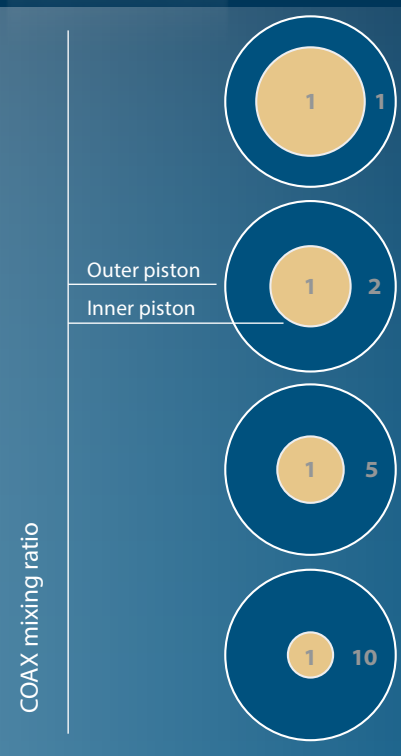
Superior piston



SUPERIOR
- self bleeding pistons -

Coax 380 ml

| Article | Volume in oz* | Mixing ratio | Material cartridge | Design outer piston | Design inner piston | Reference |
|----------------|----------------|---------------------|--------------------|------------------------|------------------------|---------------|
| Artikel | Volumen in oz* | Mischungsverhältnis | Material Kartusche | Ausführung Außenkolben | Ausführung Innenkolben | Bestellnummer |
| Coax 380 ml OV | 13 | 1:1 | PP | weldable | weldable | 16116-0000 |
| Coax 380 ml OV | 13 | 2:1 | PP | solid | solid | 16208-0000 |
| Coax 380 ml OV | 13 | 2:1 | PP | weldable | weldable | 16209-0000 |
| Coax 380 ml OV | 13 | 5:1 | PP | solid | solid | 16115-0000 |
| Coax 380 ml OV | 13 | 10:1 | PA | superior | valve | 16134-0010 |
| Coax 380 ml OV | 13 | 10:1 | PA | weldable | weldable | 16134-0013 |
| Coax 380 ml OV | 13 | 10:1 | PP | superior | valve | 16189-0009 |
| Coax 380 ml OV | 13 | 10:1 | PP | weldable | solid | 16189-0010 |
| Coax 380 ml OP | 13 | 10:1 | PA | superior | valve | 16608-0010 |
| Coax 380 ml OP | 13 | 10:1 | PP | superior | valve | 16607-0010 |



Side-by-Side



ZKK 24 ml

| Article | Volume in oz* | Mixing ratio | Material cartridge | Set specification | Reference |
|-----------------------|----------------|---------------------|--------------------|---------------------------|---------------|
| Artikel | Volumen in oz* | Mischungsverhältnis | Material Kartusche | Set Spezifikation | Bestellnummer |
| ZKK 24 ml incl. Lurch | 1 | 1:1 | PP | Spatula | 16080-0000 |
| ZKK 24 ml incl. Lurch | 1 | 1:1 | PP | Without mixer | 16084-0000 |
| ZKK 24 ml incl. Lurch | 1 | 1:1 | PP | 2 x Mixer ZWM 13 attached | 16083-0000 |
| ZKK 24 ml incl. Lurch | 1 | 1:1 | PA | Spatula | 16080-0001 |
| ZKK 24 ml incl. Lurch | 1 | 1:1 | PA | Without mixer | 16085-0000 |
| ZKK 24 ml incl. Lurch | 1 | 1:1 | PA | Mixer ZWM 13 | 16081-0001 |
| ZKK 24 ml incl. Lurch | 1 | 1:1 | PA | Mixer ZWM 17 | 16082-0001 |
| Mixer | | | | | |
| ZWM 13 | | | | 13 mixing elements | 13175-0000 |
| ZWM 17 | | | | 17 mixing elements | 13178-0000 |

Integral Side-by-Side Cartridges & Syringes

The 24 ml Syringe features an attractive design and a useful reclosable break-off closure cap. The syringe is extruded by hand without applicator gun. Available in PP and PA, it's suitable for various professional and DIY applications.



SUPERIOR
- self bleeding pistons -

Figure | Abbildung 1:1

ZKK 50 ml

| Article | Volume in oz* | Mixing ratio | Material cartridge | Design piston | Reference |
|-----------------|----------------|---------------------|--------------------|--------------------|---------------|
| Artikel | Volumen in oz* | Mischungsverhältnis | Material Kartusche | Ausführung Kolben | Bestellnummer |
| ZKK 50 ml | 2 | 1:1 | PP | superior | 18000-0023 |
| ZKK 50 ml | 2 | 1:1 | PP | o-ring | 18000-0024 |
| ZKK 50 ml | 2 | 1:1 | PA | superior | 18000-0022 |
| Mixer | | | | | |
| ZWM 17-S | | | | 17 mixing elements | 18001-0041 |
| ZWM 3.2 - 16 SG | | | | 16 mixing elements | 18001-0038 |
| ZWM 11-D | | | | 11 mixing elements | 18001-0032 |
| Tip for: | | | | | |
| mixer ZWM 11-D | | | | | 18003-0002 |

ZKK 50ml with Superior Piston Technology

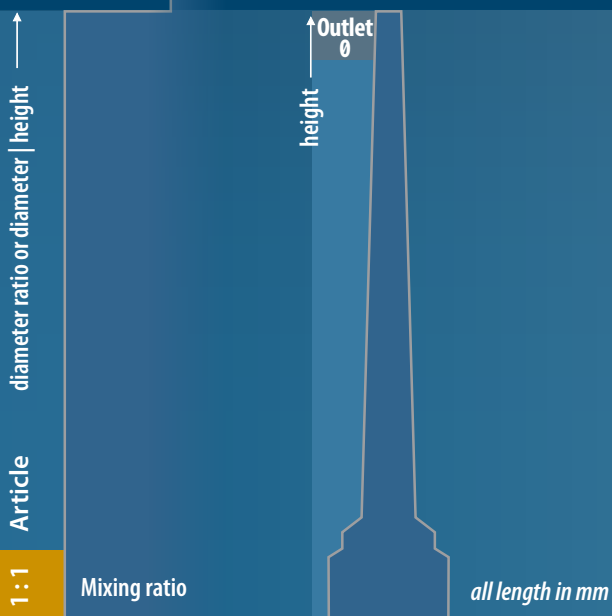
The 50 ml 1:1 cartridge from Ritter offers safe and clean use thanks to the bayonet cap for easy opening and closure. Separated outlets guarantee leak free extrusion and prevent cross contamination. The patented "superior" piston technology allows perfect bleeding and safe transport by air and sea.

Together with our mixing nozzles we provide a proven solution for accurate application.

Side-by-Side



Legend



Integral Side-by-Side Cartridges ZKK

Integral Side-by-Side Cartridges from Ritter for structural adhesives and bonding applications. Thanks to the beneficial co-axial outlet, extrusion is safe and easy, as it allows the use of the full range of threaded standard mixing nozzles.

Air-free filling is achieved by up-to-date self-bleeding piston technology.



SUPERIOR
- self bleeding pistons -

ZKK 345 – 400 ml

| Article | Volume in oz* | Mixing ratio | Material cartridge | Design piston | Reference |
|------------|----------------|---------------------|--------------------|--------------------|---------------|
| Artikel | Volumen in oz* | Mischungsverhältnis | Material Kartusche | Ausführung Kolben | Bestellnummer |
| ZKK 345 ml | 12 | 10:1 | PA | superior A-piston | 16048-0015 |
| ZKK 345 ml | 12 | 10:1 | PP | superior A-piston | 16048-0026 |
| ZKK 385 ml | 13 | 3:1 | PP | superior | 16051-0003 |
| ZKK 400 ml | 14 | 1:1 | PA | superior PA-piston | 16060-0000 |
| ZKK 400 ml | 14 | 1:1 | PA | superior PE-piston | 16060-0010 |
| ZKK 400 ml | 14 | 1:1 | PP | valve | 16055-0001 |
| ZKK 400 ml | 14 | 1:1 | PP | superior | 16055-0010 |

Side-by-Side



Integral Side-by-Side Cartridges ZKK

ZKK 450 – 825 ml

| Article | Volume in oz* | Mixing ratio | Material cartridge | Design piston | Reference |
|------------|----------------|---------------------|--------------------|-------------------|---------------|
| Artikel | Volumen in oz* | Mischungsverhältnis | Material Kartusche | Ausführung Kolben | Bestellnummer |
| ZKK 450 ml | 15 | 2:1 | PA | superior | 16053-0005 |
| ZKK 450 ml | 15 | 2:1 | PP | superior | 16054-0005 |
| ZKK 600 ml | 20 | 1:1 | PP | solid | 16061-0000 |
| ZKK 600 ml | 20 | 1:1 | PP | superior | 16061-0001 |
| ZKK 600 ml | 20 | 1:1 | PP | valve | 16061-0011 |
| ZKK 825 ml | 28 | 10:1 | PA | superior A-piston | 16057-0002 |
| ZKK 825 ml | 28 | 10:1 | PP | superior A-piston | 16057-0013 |

0 65,5 : 46,3 | 216,5
2 : 1 ZKK 900 ml



0 46,5 : 73,7 | 240
2,5 : 1 ZKK 1200 ml



0 79,2 : 79,2 | 215
1 : 1 ZKK 1500 ml



ZKK 900 – 1500 ml

| Article | Volume in oz* | Mixing ratio | Material cartridge | Design piston | Reference |
|-------------|----------------|---------------------|--------------------|-------------------|---------------|
| Artikel | Volumen in oz* | Mischungsverhältnis | Material Kartusche | Ausführung Kolben | Bestellnummer |
| ZKK 900 ml | 30 | 2:1 | PA | superior | 16069-0010 |
| ZKK 900 ml | 30 | 2:1 | PP | superior | 16071-0010 |
| ZKK 1200 ml | 41 | 2,5:1 | PP | superior | 16062-0000 |
| ZKK 1500 ml | 51 | 1:1 | PP | valve | 16095-0000 |
| | | | | | |

Side-by-Side

SUPERIOR
- self bleeding pistons -



ZKK 2x110 – 2x310 ml

| Article | Volume in oz* | Mixing ratio | Material cartridge | Design piston | Reference |
|----------------|----------------|---------------------|--------------------|-------------------|---------------|
| Artikel | Volumen in oz* | Mischungsverhältnis | Material Kartusche | Ausführung Kolben | Bestellnummer |
| ZKK 2 x 110 ml | 2 x 4 | 1:1 | PE | RK 07 | 16058-0000 |
| ZKK 2 x 190 ml | 2 x 6 | 1:1 | PP | RK MB | 16058-0001 |
| ZKK 2 x 190 ml | 2 x 6 | 1:1 | PP | valve pistons | 16058-0007 |
| ZKK 2 x 310 ml | 2 x 10 | 1:1 | PP | RK 11 C | 16058-0004 |
| ZKK 2 x 310 ml | 2 x 10 | 1:1 | PP | RK MB | 16058-0003 |
| ZKK 2 x 310 ml | 2 x 10 | 1:1 | PP | valve pistons | 16058-0002 |
| ZKK 2 x 310 ml | 2 x 10 | 1:1 | PP | superior pistons | 16058-0006 |



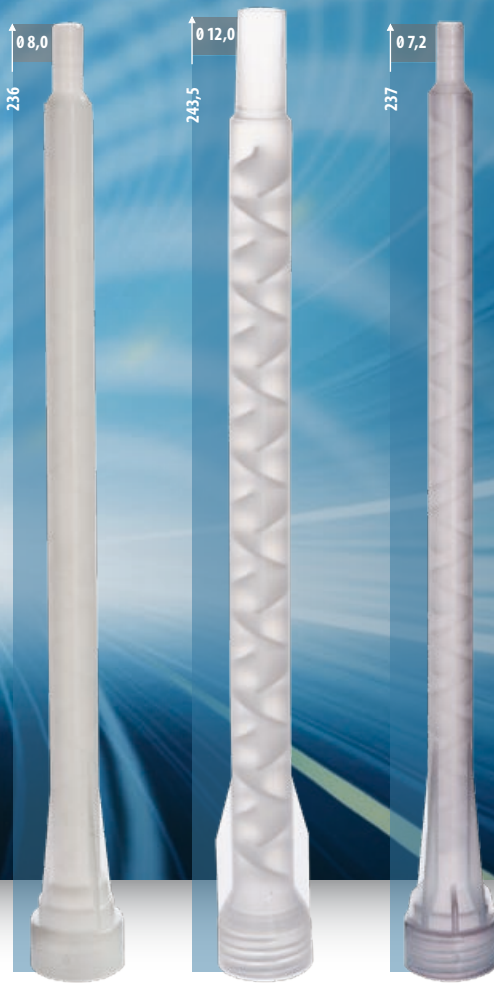
CIC-Pack for sausage bag systems

Ritter CIC cartridges for sausage bag systems feature the improved "SP" outlet design for easier extrusion of the product and less residual chemistry. The new CIC-Pack 380 ml features the same dimensions as a 380 ml Coax cartridge for extrusion by conventional co-axial applicator guns.

CIC-Pack 150 – 550 ml

| Article | Volume in oz* | Design tube | Material cartridge | Diameter | Material sausage piston | Reference |
|---------------------|----------------|-----------------|--------------------|-------------|-------------------------|---------------|
| Artikel | Volumen in oz* | Ausführung Rohr | Material Kartusche | Durchmesser | Material Folienkolben | Bestellnummer |
| CIC-Pack 150 ml CSP | 5 | transparent | PP | 47,4 mm | PE | 16322-0001 |
| CIC-Pack 150 ml CSP | 5 | black | PP | 47,4 mm | PE | 16322-0002 |
| CIC-Pack 170 ml SP | 6 | transparent | PP | 47,4 mm | PE | 16318-0035 |
| CIC-Pack 170 ml SP | 6 | black | PP | 47,4 mm | PE | 16318-0025 |
| CIC-Pack 300 ml SP | 10 | transparent | PP | 46,9 mm | PE | 16318-0006 |
| CIC-Pack 300 ml SP | 10 | black | PP | 46,9 mm | PE | 16318-0015 |
| CIC-Pack 380 ml | 13 | transparent | PP | 59,7 mm | PE | 16326-0000 |
| CIC-Pack 380 ml SP | 13 | transparent | PP | 46,9 mm | PE | 16320-0001 |
| CIC-Pack 550 ml SP | 19 | transparent | PP | 46,9 mm | PE | 16321-0002 |

Mixing Nozzles



ZWM18 S

ZWM18 J

ZWM24

all length in mm

Cylindrical mixing nozzles

| Article | Mixing elements | Length mm | Outer Ø Outlet | Inner Ø Outlet | Ø Tube | Reference |
|----------|------------------|-----------|------------------|-----------------|--------|---------------|
| Artikel | Mischer-elemente | Länge mm | Auslauf Ø Aussen | Auslauf Ø Innen | Ø Rohr | Bestellnummer |
| ZWM 18 S | 18 | 236,0 | 8,0 | 6,2 | 10,0 | 13160-0000 |
| ZWM 18 J | 18 | 243,5 | 12,0 | 10,2 | 12,5 | 13176-0000 |
| ZWM 24 | 24 | 237,0 | 7,2 | 5,0 | 9,2 | 13122-0000 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Mixing Nozzles

Our wide range now also includes new big volume mixers for high viscous products and further square mixers for structural adhesives.

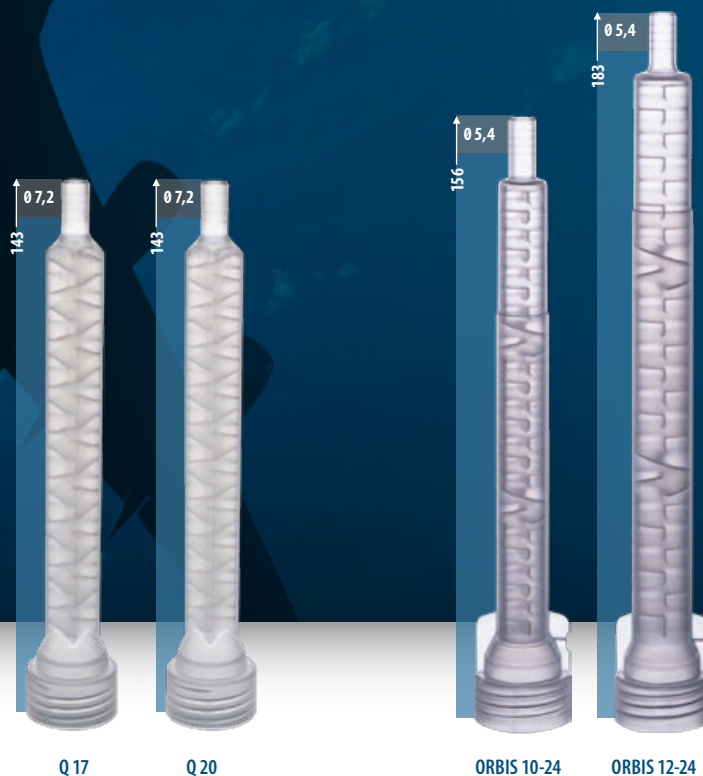
The standard thread saves time and costs and applies on virtually all our 2-component cartridges.



Conical mixing nozzles

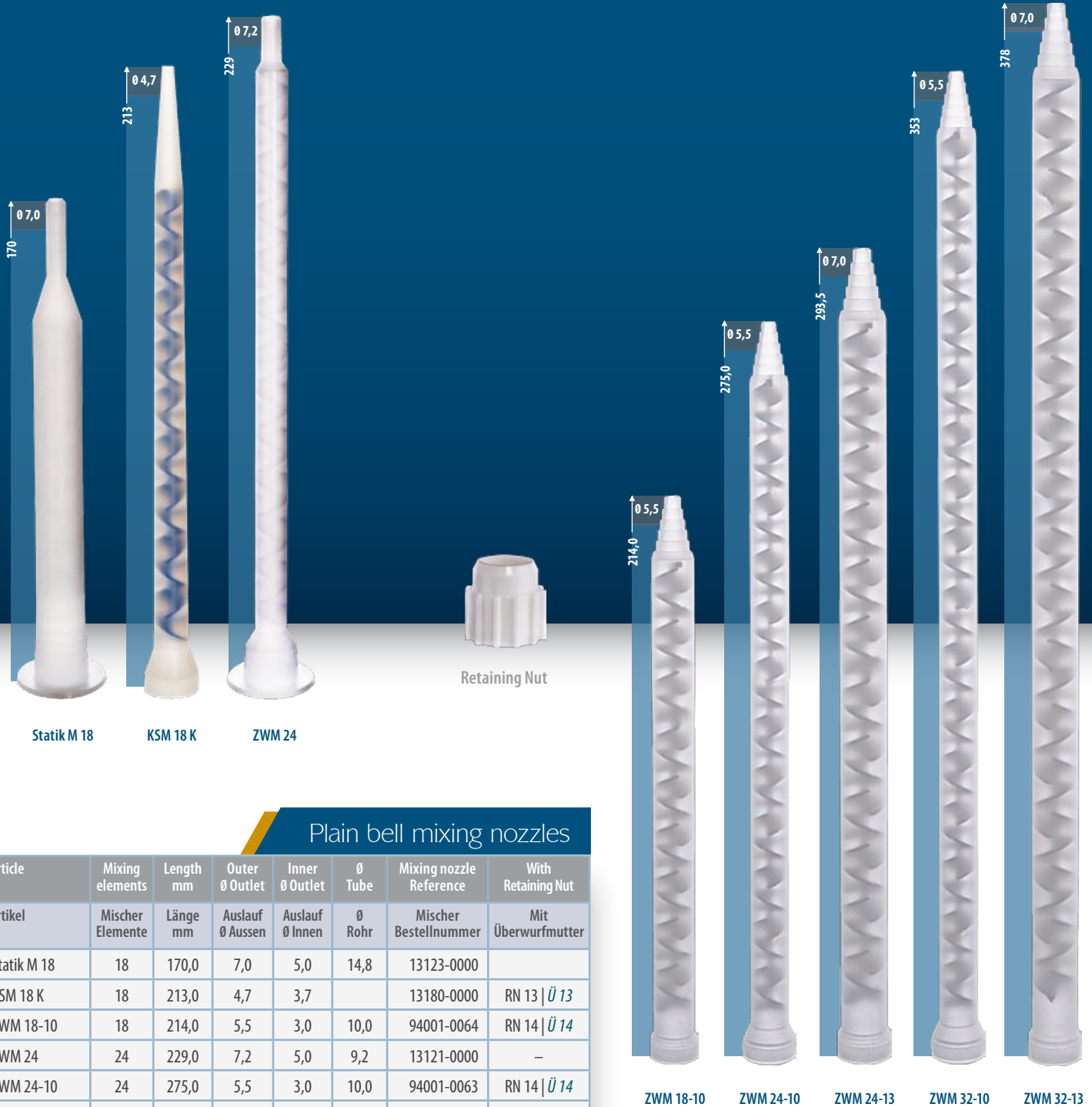
| Article | Mixing elements | Length mm | Outer Ø Outlet | Inner Ø Outlet | Reference |
|-----------|------------------|-----------|------------------|-----------------|---------------|
| Artikel | Mischer-elemente | Länge mm | Auslauf Ø Aussen | Auslauf Ø Innen | Bestellnummer |
| RWM 10 | 10 | 167,0 | 7,4 | 5,8 | 13170-0000 |
| KWM 10 | 10 | 216,6 | 6,6 | 5,8 | 13115-0000 |
| RWM 14 G | 14 | 214,0 | 8,0 | 6,8 | 13150-0000 |
| KWM 18 VA | 18 | 220,0 | 4,8 / 5,4 | 2,4 | 13137-0000 |
| KWM 18 K | 18 | 221,0 | 4,6 | 3,2 | 13119-0000 |
| | | | | | |
| | | | | | |

Mixing Nozzles



Square static mixing nozzles

| Article | Mixing chambers | Length mm | Outer Ø Outlet | Inner Ø Outlet | Ø Tube | Design Tube | Reference |
|-------------|-----------------|-----------|------------------|-----------------|--------|-----------------|---------------|
| Artikel | Mischkammern | Länge mm | Auslauf Ø Aussen | Auslauf Ø Innen | Ø Rohr | Ausführung Rohr | Bestellnummer |
| Q 17 | 17 | 143,0 | 7,2 | 5,0 | 8,6 | square | 13162-0010 |
| Q 20 | 20 | 143,0 | 7,2 | 5,0 | 8,6 | square | 13164-0010 |
| ORBIS 10-24 | 24 | 156,0 | 7,2 | 4,9 | 10,0 | ORBIS | 13602-2010 |
| ORBIS 12-24 | 24 | 183,0 | 7,2 | 4,9 | 12,0 | ORBIS | 13602-2012 |
| | | | | | | | |



Plain bell mixing nozzles

| Article | Mixing elements | Length mm | Outer Ø Outlet | Inner Ø Outlet | Ø Tube | Mixing nozzle Reference | With Retaining Nut |
|----------------------|-------------------|-----------|------------------|-----------------|--------|-------------------------|--------------------|
| Artikel | Mischer Elemente | Länge mm | Auslauf Ø Aussen | Auslauf Ø Innen | Ø Rohr | Mischer Bestellnummer | Mit Überwurfmutter |
| Statik M 18 | 18 | 170,0 | 7,0 | 5,0 | 14,8 | 13123-0000 | |
| KSM 18 K | 18 | 213,0 | 4,7 | 3,7 | | 13180-0000 | RN 13 Ü 13 |
| ZWM 18-10 | 18 | 214,0 | 5,5 | 3,0 | 10,0 | 94001-0064 | RN 14 Ü 14 |
| ZWM 24 | 24 | 229,0 | 7,2 | 5,0 | 9,2 | 13121-0000 | – |
| ZWM 24-10 | 24 | 275,0 | 5,5 | 3,0 | 10,0 | 94001-0063 | RN 14 Ü 14 |
| ZWM 24-13 | 24 | 293,5 | 7,0 | 3,8 | 13,0 | 94001-0060 | RN 17 Ü 17 |
| ZWM 32-10 | 32 | 353,0 | 5,5 | 3,0 | 10,0 | 94001-0061 | RN 14 Ü 14 |
| ZWM 32-13 | 32 | 378,0 | 7,0 | 4,2 | 13,0 | 94001-0062 | RN 17 Ü 17 |
| Retaining Nut | | | | | | | |
| Retaining Nut 13 | Überwurfmutter 13 | | 13 mm | | | 14104-0000 | |
| Retaining Nut 14 | Überwurfmutter 14 | | 14 mm | | | 14105-0000 | |
| Retaining Nut 17 | Überwurfmutter 17 | | 17 mm | | | 14105-0001 | |

ZWM 18-10 ZWM 24-10 ZWM 24-13 ZWM 32-10 ZWM 32-13

Mixing Nozzles



Attached mixing nozzles

| Article | Mixing elements | Length mm | Outer Ø Outlet | Inner Ø Outlet | Ø Tube | Clip distance | Reference |
|----------------------------|------------------|-----------|------------------|-----------------|--------|---------------|---------------|
| Artikel | Mischer Elemente | Länge mm | Auslauf Ø Aussen | Auslauf Ø Innen | Ø Rohr | Clipabstand | Bestellnummer |
| KWMC 10 B (380 ml) | 10 | 161,0 | 7,0 | 5,8 | | 42,0 | 13157-0000 |
| KWMC 10 | 10 | 216,6 | 6,6 | 5,8 | | 37,6 | 13141-0000 |
| WMC 14 | 14 | 214,0 | 7,9 | 6,8 | | 37,6 | 17120-0010 |
| RMES 15 EH (attached ext.) | 15 | 125,0 | 6,5 | 5,1 | 8,6 | 37,6 | 13161-1000 |
| RMES 18 H | 18 | 125,0 | 6,5 | 11,6 | 8,6 | 37,6 | 13166-1000 |

Clip-nozzles

The new short attached clip mixers with or without extension tube offer flexible use for all standard applications and minimize the amount of residual chemistry.

Figure | Abbildung 1:1



Lurch for Coax 150

Perforated sleeve

End cap

Screw cap long

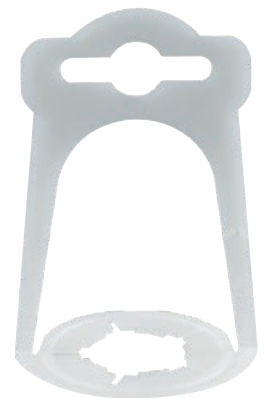
Screw cap OV

Screw cap OP

Extension tubes

Accessories

| Article | Reference | Remarks |
|---|---------------|---|
| Artikel | Bestellnummer | Bemerkung |
| Lurch <i>Stößel</i> | 14103-0001 | plunger for usage of Coax 150 ml 1:1/2:1 in a standard caulking gun |
| Lurch <i>Stößel</i> | 14103-0102 | plunger for usage of Coax 150 ml 10:1 in a standard caulking gun |
| Extension tube <i>Verlängerungsrohr</i> | 14134-0000 | 95 mm, oval 8 x 10 mm |
| Extension tube <i>Verlängerungsrohr</i> | 91501-2107 | 195 mm, circular 9 x 7 mm |
| Perforated sleeve <i>Siebhülse</i> | 14300-0000 | 15 x 85 mm |
| Screw cap long <i>Schraubkappe lang</i> | 14107-0000 | For CIC & ZKK |
| Screw cap OV <i>Schraubkappe OV</i> | 14157-0000 | For Coax & ZKK in 1:1 and CIC |
| Screw cap OP <i>Schraubkappe OP</i> | 14130-1007 | For Coax & ZKK in 10:1 |
| End cap OV <i>Endkappe OV</i> Coax 380 ml | 14141-0000 | |
| End cap OP <i>Endkappe OP</i> Coax 380 ml | 14115-0000 | |
| End cap <i>Endkappe</i> Coax 150 / 310 ml | 14136-0000 | |
| Coax-Cleaner | 14144-0000 | |
| Coax-H | 14143-0000 | |



Coax H



Coax Cleaner

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Ritter is one of the world's leading manufacturers of cartridges for adhesives and sealants. We will be happy to provide more detailed product information and consultancy.

Die Ritter GmbH ist einer der weltweit führenden Hersteller von Kartuschen für Dichtstoffe und Klebstoffe. Gerne senden wir Ihnen unsere ausführlichen Produktinformationen zu.



Management System
 ISO 9001:2008

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Changes may be made to technical details. Different cartridge designs and auxiliary equipment as well as scale drawings are available on request. The dimensions given are for information only and cannot be applied for any Quality Control. *The specifications of the cartridge volume in ounces (oz) are approximative, converted from the specification in ml.

*Technische Änderungen vorbehalten. Weitere Ausführungen von Kartuschen und Zubehörteilen sowie maßstabsgetreue Zeichnungen auf Anfrage. *Die Volumenangaben in Unzen (oz) sind Näherungswerte umgerechnet aus den ml-Angaben.*