

2-Component cartridges for adhesives and mortars

Moulding – Printing – Supplying



Ritter – part of Avantor in a nutshell



Founded: 1965
Employees: 550
Buildings: 30,000 m²
Factories in Bavaria and Slovenia



-
- Injection moulding and automated assembly processes
 - Computerised visual quality controls



Raw Materials used to fit technical and chemical product requirements

Focus on efficient and sustainable production:

- Solar panel systems
- Combined heat & power plant Hydropower electricity
Up to 1/3 of the energy demand is derived from sustainable resources

The unique Superior piston technology



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.

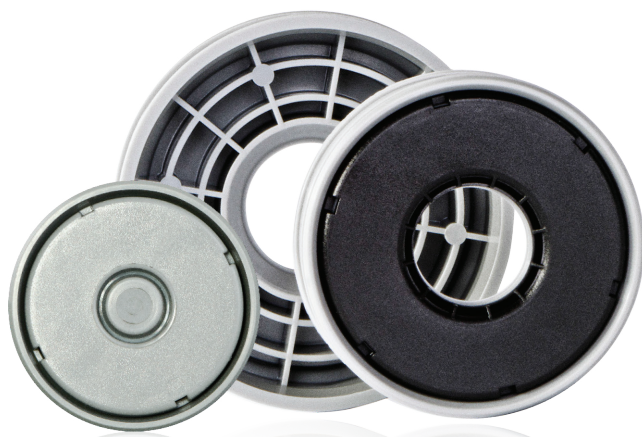
Das Ergebnis – ein deutlicher Mehrwert der Ritter-Kartuschen.

Improved features

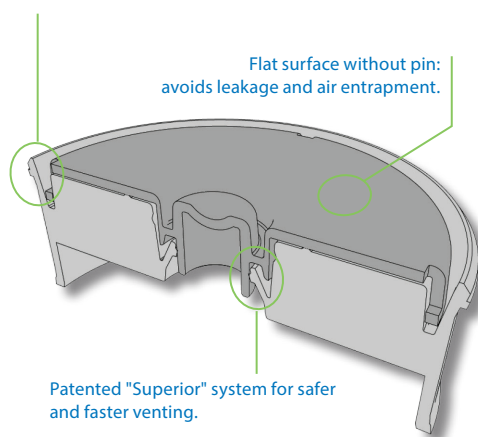
By its design features, the patented* "Superior-piston" generation offers significant advantages for the filler as well as for the user with regard to air-free filling and up to 30 % shorter venting time.

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.

SUPERIOR
self bleeding
pistons



For improved tightness and extended shelf-life.



*The Ritter Superior pistons for Coax and Integral Side-by-Side cartridges are protected by patents in Europe and Overseas. U.S. Patent No.: 8,678,246.



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	5	2:1	PP	solid	solid	16161-0000
Coax 150 ml	5	10:1	PA	superior	valve	16176-0015
Lurch Stössel		1:1		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	10	10:1	PA	superior	valve	16136-0013

"The Original"

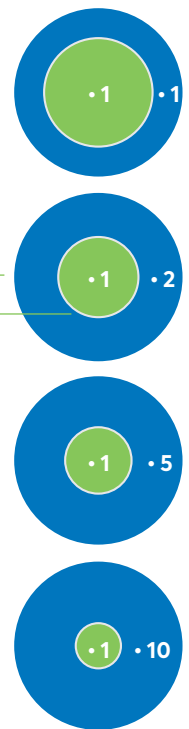
The Original Ritter Coax Cartridges offer safe and easy handling during filling and application. Our cartridges feature various piston designs such as the patented state-of-the-art "Superior" piston, which reduces the venting time and increases productivity during the filling process. Solid pistons,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

SUPERIOR
self bleeding
pistons



Superior piston

COAX mixing ratio



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

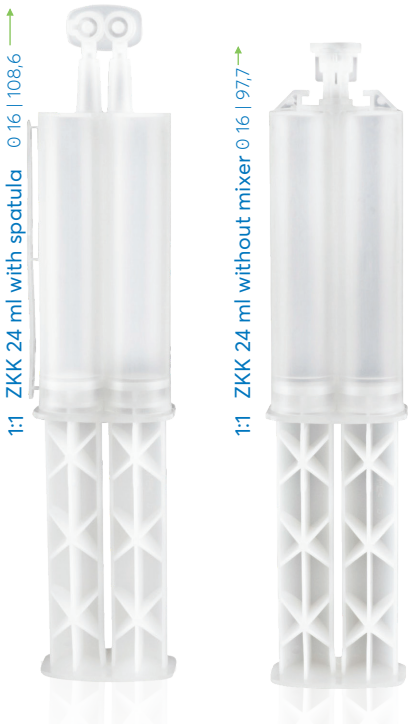
Side-by-Side

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.

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	PA	Spatula	16080-0001
ZKK 24 ml incl. Lurch	1	1:1	PA	Without mixer	16085-0000
Mixer					
ZWM 13				13 mixing elements	13175-0000
ZWM 17				17 mixing elements	13178-0000



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.



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 16SG				16 mixing elements	13101-0000
ZWM 11-D				11 mixing elements	18001-0032

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.



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

SUPERIOR
self bleeding
pistons

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	superior	16061-0001
ZKK 600 ml	20	1:1	PP	valve V46M	16061-0004
ZKK 600 ml	20	1:1	PP	superior V46L	16061-0010
ZKK 600 ml	20	1:1	PP	valve V46L	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



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
ZKK 1500 ml	51	1:1	PP	superior	16096-0000



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

CIC-Pack

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.



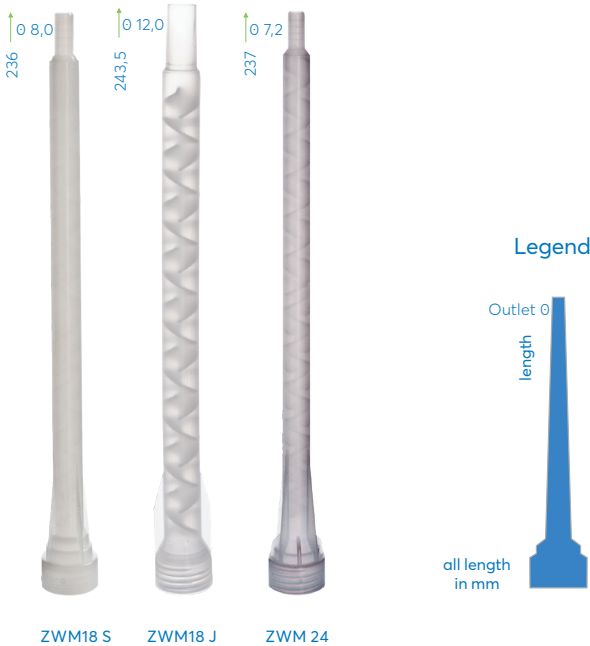
CIC-PACK 150 – 550 ML

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

Cylindrical 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.



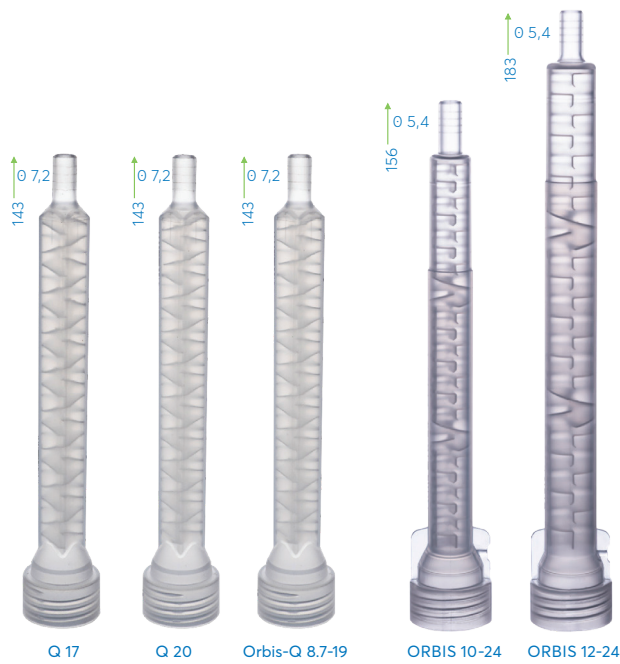
CYLINDRICAL MIXING NOZZLES

Article	Mixing elements	Length mm	Outer Ø Outlet	Inner Ø Outlet	Ø Tube	Reference
Artikel	Mischerelemente	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



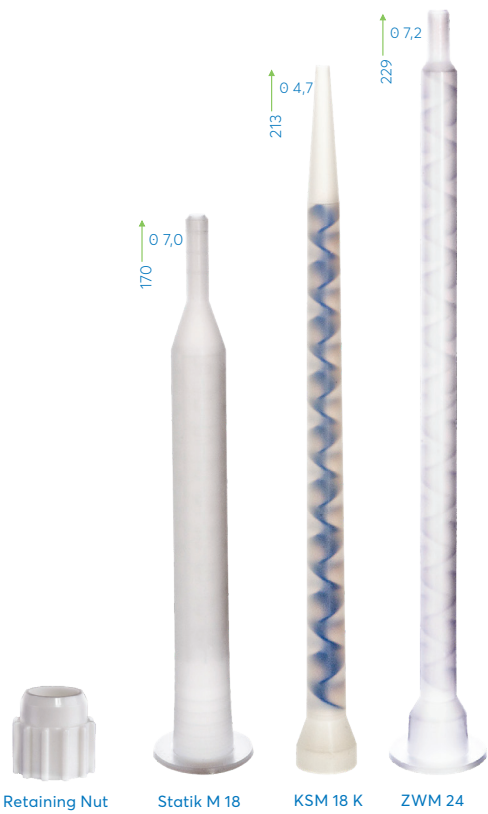
CONICAL MIXING NOZZLES

Article	Mixing elements	Length mm	Outer Ø Outlet	Inner Ø Outlet	Reference
Artikel	Mischerelemente	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



SQUARE STATIC MIXING NOZZLES

Article	Mixing chambers	Length mm	Outer Ø Outlet	Inner Ø Outlet	Ø Tube	Design Tube	Reference
Artikel	Misch-kammern	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
Orbis-Q 8.7-19	19	143,0	7,2	5,0	8,6	square	13136-0000
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
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
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	

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.



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

Accessories



ATTACHED MIXING NOZZLES

Article	Remarks	Reference
Artikel	Bemerkung	Bestellnummer
Lurch Stößel	plunger for usage of Coax 150 ml 1:1 in a standard caulking gun	14103-0001
Lurch Stößel	plunger for usage of Coax 150 ml 10:1 in a standard caulking gun	14103-0102
Perforated sleeve Siebhülse	15 x 85 mm	14300-0000
Screw cap long Schraubkappe lang	For CIC & ZKK	14107-0000
Screw cap OV Schraubkappe OV	For Coax & ZKK in 1:1 and CIC	14157-0000
Screw cap OP Schraubkappe OP	For Coax & ZKK in 10:1	14130-1007
End cap OV Endkappe OV Coax 380 ml		14141-0000
End cap OP Endkappe OP Coax 380 ml		14115-0000
End cap Endkappe Coax 150 / 310 ml		14136-0000

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.