Raca International

Technical Brochure

Your partner in
Spray Drying Solutions



spraydryingnozzles.com



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With over 35 years of global experience, Raca International is a trusted partner in spray drying technology. We supply durable, high-quality nozzles for industries such as food, dairy, and pharmaceuticals.

Our strength lies in technical expertise, service, and custom solutions. Under the Fyrtex® brand, we offer reliable and flexible components that support uptime and consistent product quality.

All our nozzles are compatible with major brands. Whether you need replacements or expert advice, our team is here to support you.

Raca International is ISO 9001 certified, ensuring consistent quality and full traceability from design to delivery.

Raca International B.V.
Arnoudstraat 22
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The Netherlands

Technical Overview

Fyrtex 5

Fyrtex 5 consists of two tungsten carbide wear parts: an orifice disc and a standard or flat back swirl chamber. The orifice disc can be combined with different swirl chamber styles, depending on the retainer disc. This setup reduces the number of critical components. It simplifies maintenance without reducing performance. Most variants are available directly from stock.



Technical Specifications

Construction	Body, Adapter, Orifice Disc, Swirl Chamber, Gasket, Seal, Retainer Disc
Max. Operation Pressure	345 bar (5000 PSI), with system variants reaching up to 690 bar (10,000 PSI)
Max. Temperature	150°C (polymer seals)
Maintenance	Easy-to-replace wear parts: universal swirl chamber and orifice disc
Compatibility	Fully interchangeable with Delavan SDX® V components; identical in dimensions and function
Applications	Infant formula, pharmaceuticals, plant-based proteins, specialty chemicals, food extracts and more

Swirl Chamber Chart: Standard

Part no.	Description
TCSB-R	Fyrtex 5 Swirl Chamber SB / standard
TCSC-R	Fyrtex 5 Swirl Chamber SC / standard
TCSD-R	Fyrtex 5 Swirl Chamber SD / standard
TCSE-R	Fyrtex 5 Swirl Chamber SE / standard
TCSF-R	Fyrtex 5 Swirl Chamber SF / standard
TCSG-R	Fyrtex 5 Swirl Chamber SG / standard
TCSH-R	Fyrtex 5 Swirl Chamber SH / standard
TCSI-R	Fyrtex 5 Swirl Chamber SI / standard

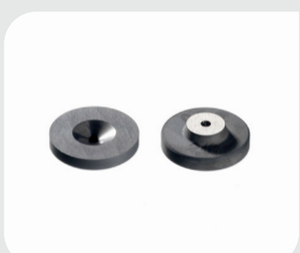
**All parts are made from durable tungsten carbide*

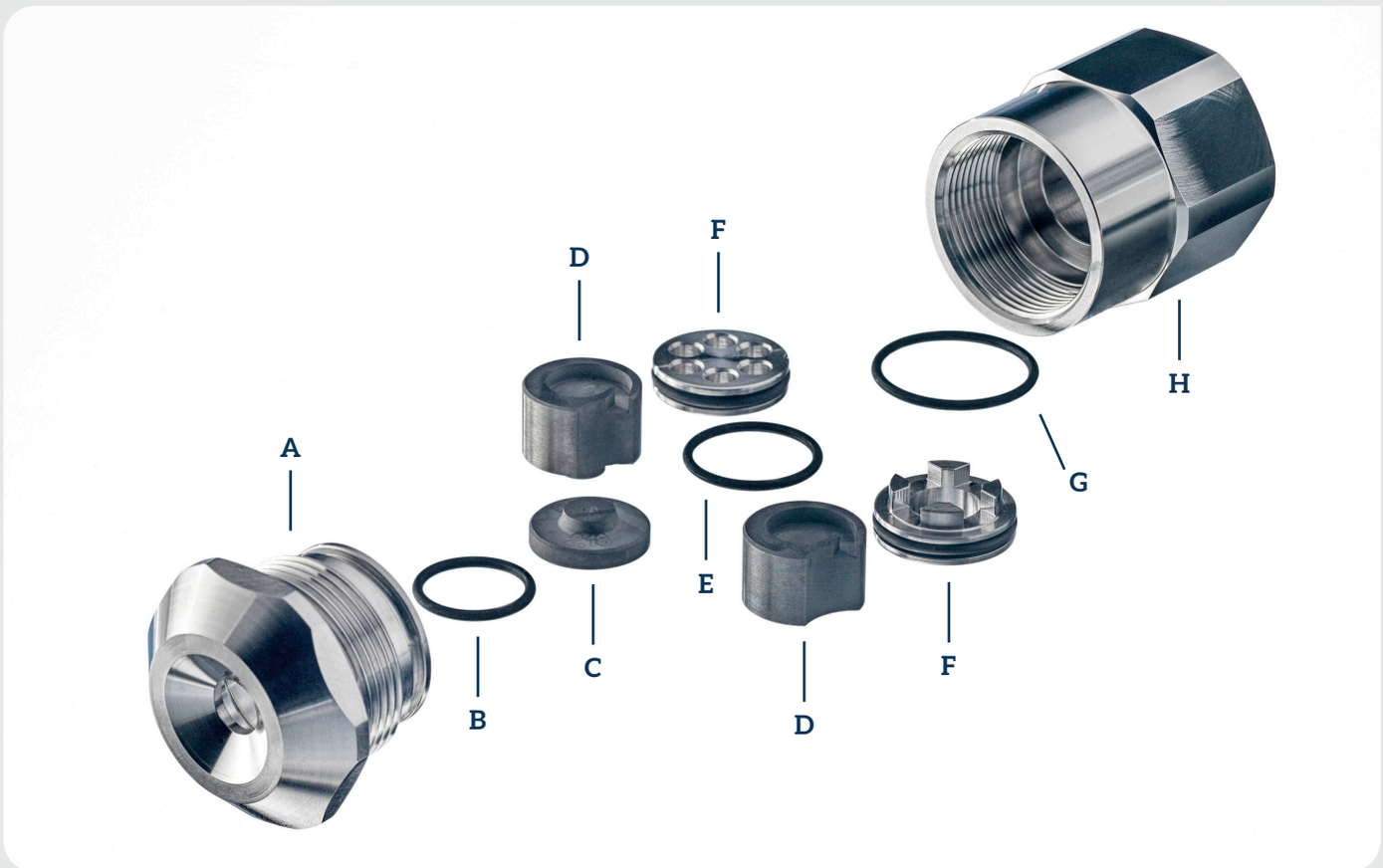
Swirl Chamber Chart: Flat Black

Part no.	Description
TCSB-R-T	Fyrtex 5 Swirl Chamber SB / Flat Back
TCSC-R-T	Fyrtex 5 Swirl Chamber SC / Flat Back
TCSD-R-T	Fyrtex 5 Swirl Chamber SD /Flat Back
TCSE-R-T	Fyrtex 5 Swirl Chamber SE / Flat Back
TCSF-R-T	Fyrtex 5 Swirl Chamber SF / Flat Back
TCSG-R-T	Fyrtex 5 Swirl Chamber SG / Flat Back
TCSH-R-T	Fyrtex 5 Swirl Chamber SH / Flat Back
TCSI-R-T	Fyrtex 5 Swirl Chamber SI / Flat Back

**All parts are made from durable tungsten carbide*







Fyrtex 5 Assembly Description and Part Numbers

Description	Part Number	Material
(A) Body Original	W194990013	Stainless steel
(B) O-Ring, Orifice Disc	11269381	Viton, EC/FDA
(C) Fyrtex Orifice Disc	xxx-RS*	Tungsten carbide
(D) Swirl Chamber	See swirl chamber chart	Tungsten carbide
(E) O-Ring, Retaining Disc	11416637	Viton, EC/FDA
(F) Standard ret. (Original)	W195490013	Stainless steel
(F) Cross-Milled ret. (Original)	W198300003	Stainless steel
(G) O-Ring, Adapter	12193518	Viton, EC/FDA
(H) 1/4 Adapter BSPT (Original)	W195000010	Stainless steel
(H) 3/8 Adapter BSPT (Original)	W195000028	Stainless steel
(H) 1/2 Adapter BSPT (Original)	W195000036	Stainless steel
(H) 3/4 Adapter BSPT (Original)	W195000044	Stainless steel

**All sizes available: contact our sales team*

Contact Information



Talk to our experts

Do you have questions, need support, or want to discuss your spray drying process? We're here to help.



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