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

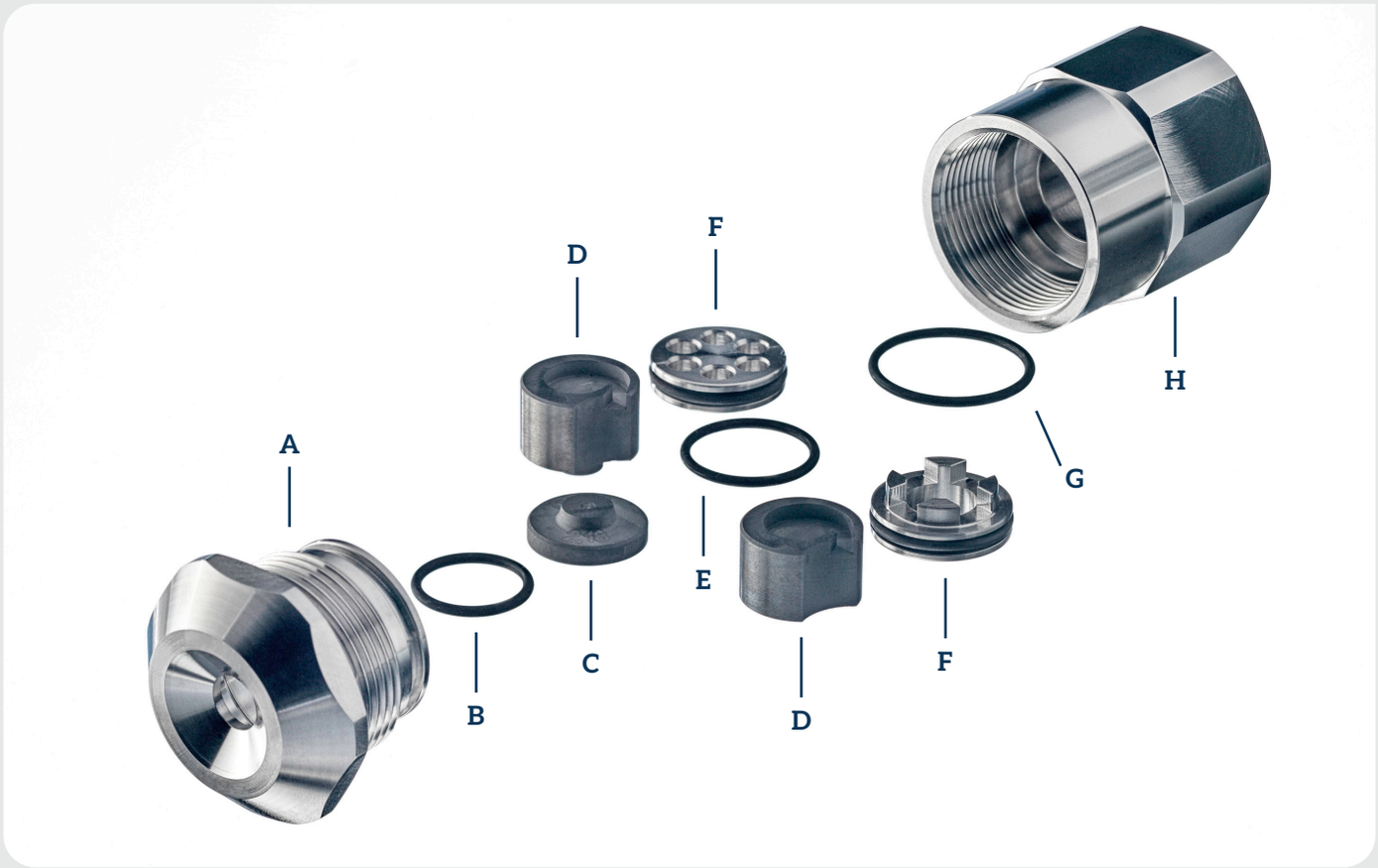
Part no.	Description
TCSB-R	Fyrtex 5 Swirl Chamber SB / standard
TCSC-R	Fyrtex 5 Swirl Chamber SC / standard
TCSD-R	Fyrtex 5 Swirl Chamber SD / standard
TCSE-R	Fyrtex 5 Swirl Chamber SE / standard
TCSF-R	Fyrtex 5 Swirl Chamber SF / standard
TCSG-R	Fyrtex 5 Swirl Chamber SG / standard
TCSH-R	Fyrtex 5 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 Swirl Chamber SB / P2 without endplate
TCSC-R-T	Fyrtex Swirl Chamber SC / P3 without endplate
TCSD-R-T	Fyrtex Swirl Chamber SD / P4 without endplate
TCSE-R-T	Fyrtex Swirl Chamber SE / P5 without endplate
TCSF-R-T	Fyrtex Swirl Chamber SF / P6 without endplate
TCSG-R-T	Fyrtex Swirl Chamber SG / P7 without endplate
TCSH-R-T	Fyrtex Swirl Chamber SH / P8 without endplate
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*

Capacity chart nozzle series 1, 3, 5 & TD

Swirl Chamber	Orifice disc	Spray Angle at 69 BAR	Flow rate in Litres/Hour at BAR				
			75	100	150	200	300
SB SA	033 038	70° 80°	80	90	108	123	149
SC SB SA	034 040 048	60° 75° 85°	98	112	135	156	187
SD SC SA	035 039 059	60° 70° 85°	118	135	164	189	228
SE SD SB SA	035 039 054 069	50° 65° 80° 90°	136	159	193	225	271
SE SD SC SB	038 048 050 062	55° 65° 75° 85°	158	181	220	253	307
SF SE SC SB	038 041 054 069	50° 60° 75° 85°	178	205	248	285	347
SF SE SD SC SB	040 044 052 060 077	50° 60° 70° 80° 90°	199	229	279	321	390
SF SE SD SC	043 048 056 066	50° 60° 70° 80°	216	248	303	351	428
SG SF SE SC	040 045 051 071	45° 55° 65° 80°	237	275	332	384	474
SG SF SE SD SC	045 051 058 069 083	45° 55° 65° 75° 85°	277	321	390	451	559
SG SF SE SD SC	049 056 064 076 094	50° 60° 70° 80° 90°	315	364	439	512	627
SG SF SE SD SC	053 060 070 083 107	50° 60° 70° 80° 90°	356	409	505	585	711
SG SF SD	057 065 092	55° 65° 80°	394	454	559	646	795

* +/- 5% tolerance on flow

** Capacity chart based on water

Capacity chart nozzle series 1, 3, 5 & TD

Swirl Chamber	Orifice disc	Spray Angle at 69 BAR	Flow rate in Litres/Hour at BAR				
			75	100	150	200	300
SH SG SF SE SD	054 060 070 083 100	45° 55° 65° 75° 85°	436	501	615	715	895
SH SG SF SE SD	057 063 075 089 108	45° 55° 65° 75° 85°	474	550	669	776	955
SH SG SF SE SD	066 075 089 108 133	50° 60° 70° 80° 90°	593	681	833	968	1170
SH SG SF SE	075 086 102 125	50° 65° 75° 85°	715	826	1013	1174	1449
SI SH SG SF SE	076 083 097 114 141	45° 55° 65° 75° 85°	829	955	1182	1365	1690
SI SH SG SF	083 090 106 127	50° 60° 70° 80°	946	1097	1338	1544	1912
SI SH SG SF	088 099 119 141	50° 60° 70° 80°	1087	1238	1518	1771	2180
SJ SI SH SG SF	085 095 106 128 155	45° 55° 65° 75° 85°	1185	1369	1683	1950	2409
SJ SI SH SG	094 106 120 144	45° 55° 65° 75°	1384	1606	1968	2275	2875
SJ SI SH	103 115 133	50° 60° 70°	1579	1827	2236	2581	3193
SJ SI SH	110 128 145	50° 60° 70°	1790	2064	2523	2925	3613
SJ SI SH	118 135 156	55° 65° 75°	1988	2294	2810	3250	4015
SJ SI	127 149	55° 65°	2176	2514	3058	3555	4392

* +/- 5% tolerance on flow

** Capacity chart based on water

Capacity chart nozzle series 1, 3, 5 & TD

Swirl Chamber	Orifice disc	Spray Angle at 69 BAR	Flow rate in Litres/Hour at BAR				
			75	100	150	200	300
SJ SI	127 149	55° 65°	2176	2514	3058	3555	4392
SJ SI	135 155	60° 70°	2370	2745	3326	3861	4760
SJ	151	60°	2561	2963	3594	4167	5085

* +/- 5% tolerance on flow

** Capacity chart based on water