



Technical Overview

Fyrtex TD

Fyrtex TD uses two tungsten carbide wear parts: an orifice disc and a swirl chamber. The orifice disc is interchangeable with Fyrtex 1 and 3. The swirl chamber has a one-piece design for extra durability and less risk of breakage.

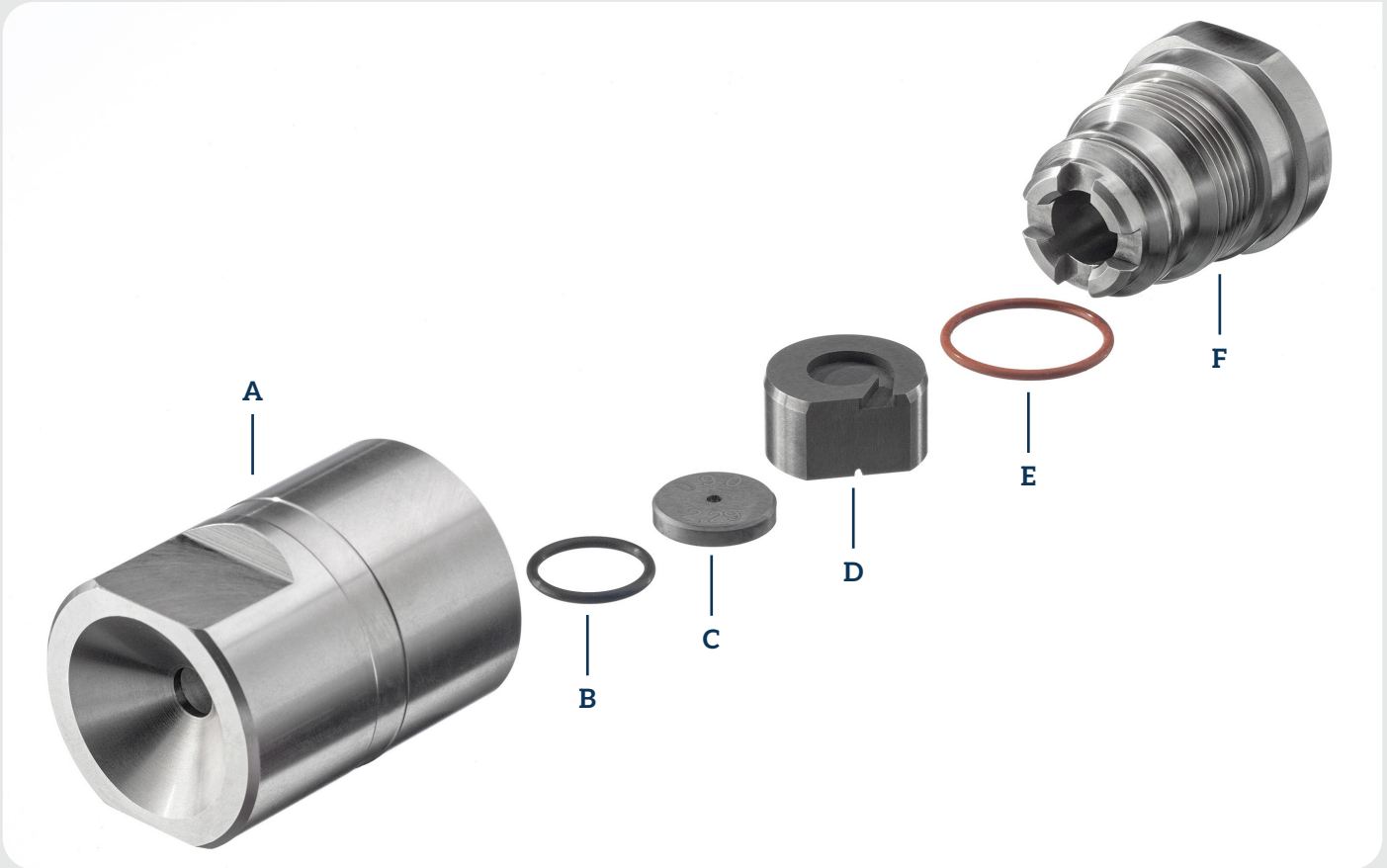


Technical Specifications

Construction	Body, Adapter, Orifice Disc, Swirl Chamber, Gasket
Maintenance	Patented twist-lock design allows fast part swaps without tools
Spray Performance	Liquid flows along one axis, forming a centrifugal vortex that ejects fine droplets at the edges
Applications	Food ingredients, dairy products, enzymes, plant-based proteins, pharmaceuticals and chemical powders

Swirl Chamber Chart: Tungsten Carbide		Swirl Chamber Chart: Tungsten Carbide	
Part no.	Description	Part no.	Description
TCSC-V	Fyrtex TD Swirl Chamber SC/03	TCSF-V	Fyrtex TD Swirl Chamber SF/06
TCSD-V	Fyrtex TD Swirl Chamber SD/04	TCSG-V	Fyrtex TD Swirl Chamber SG/07
TCSE-V	Fyrtex TD Swirl Chamber SE/05	TCSH-V	Fyrtex TD Swirl Chamber SH/08
<i>*All parts are made from durable tungsten carbide</i>		<i>*All parts are made from durable tungsten carbide</i>	





Fyrtext TD Assembly Description and Part Numbers		
Description	Part Number	Material
(A) Body BETE TD original	76360	SS 316
(B) O-ring original, Orifice disc	TD-OR-76144	Viton, FDA
(C) Fyrtext Orifice disc	xxx*	Tungsten carbide
(D) Swirl Chamber	See swirl chamber chart	Tungsten carbide
(E) O-ring original, Body	TD-OR-85574	Viton, FDA
(F) BETE Adapter original	76423	SS 316

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

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

* +/- 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	127	55°	2176	2514	3058	3555	4392
SI	149	65°					
SJ	135	60°	2370	2745	3326	3861	4760
SI	155	70°					
SJ	151	60°	2561	2963	3594	4167	5085

* +/- 5% tolerance on flow

** Capacity chart based on water