



Technical Overview

Fyrtex 1

Fyrtex 1 is designed for high-pressure, abrasive, and high-temperature environments. The main wear parts are orifice discs and swirl chambers. These are easy to replace without tools. Fyrtex 1 is fully compatible with Delavan SDX®. All parts are made from durable tungsten carbide. Most types are available directly from stock.



Technical Specifications

Construction	Body, Adapter, Orifice Disc, Swirl Chamber, End Plate (or combined), Gasket, Seal, Screw Pin
Max. Operation Pressure	500 bar / 7250 PSI
Max. Temperature	540°C (metal seals) / 150°C (polymer seals)
Materials	Tungsten carbide (wear parts), Stainless Steel 316L (housing)
Compatibility	Fyrtex 3 components, Delavan SDX®
Configuration	Swirl Chamber + endplate (separate) or combined
Applications	Milk powder, whey protein, coffee extracts, pharmaceutical APIs, enzymes, chemicals and more

Swirl Chamber Chart: Without Endplate

Part no.	Description
SB	Fyrtex Swirl Chamber SB / P2 without endplate
SC	Fyrtex Swirl Chamber SC / P3 without endplate
SD	Fyrtex Swirl Chamber SD / P4 without endplate
SE	Fyrtex Swirl Chamber SE / P5 without endplate
SF	Fyrtex Swirl Chamber SF / P6 without endplate
SG	Fyrtex Swirl Chamber SG / P7 without endplate
SH	Fyrtex Swirl Chamber SH / P8 without endplate

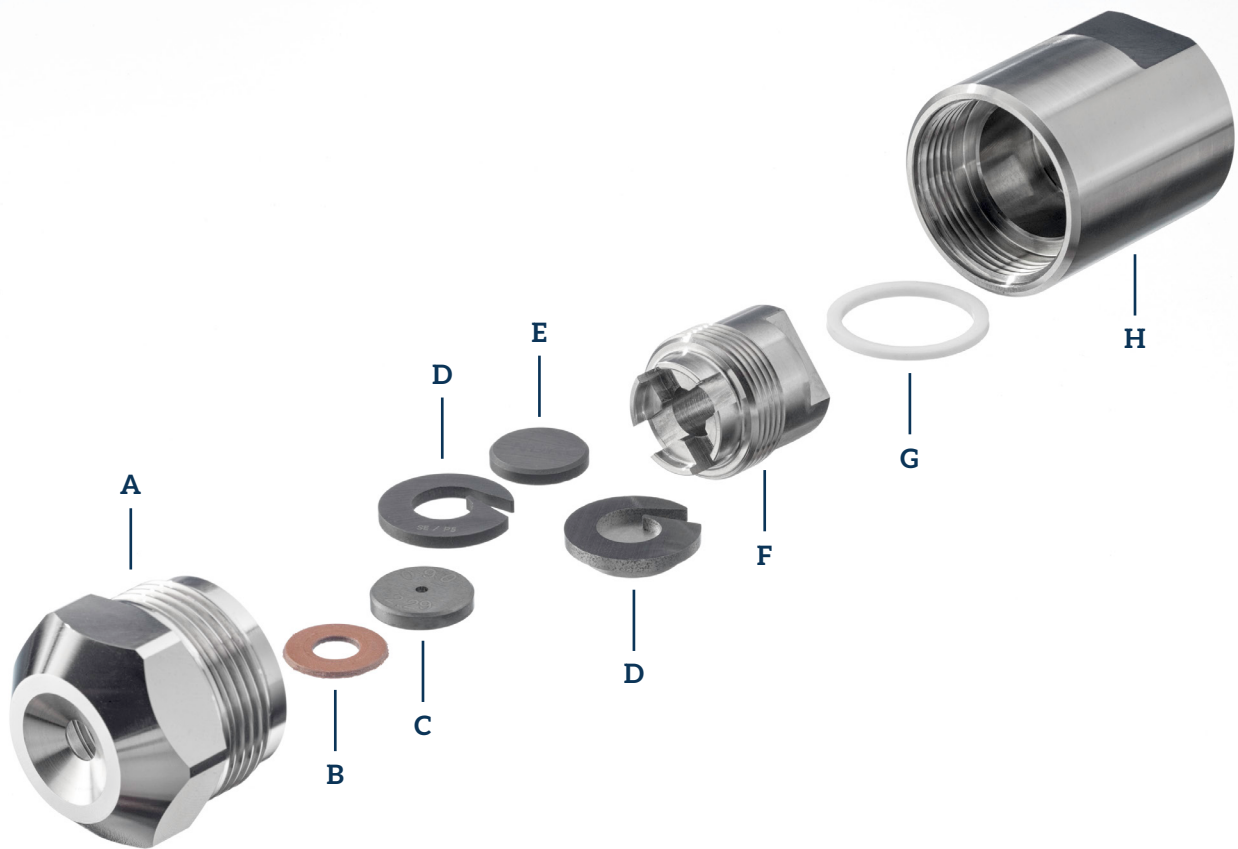
**All parts are made from durable tungsten carbide*



Swirl Chamber Chart: Combined

Part no.	Description
TCSA	Fyrtex Swirl Chamber combined TCSA / P1
TCSB	Fyrtex Swirl Chamber combined TCSB / P2
TCSC	Fyrtex Swirl Chamber combined TCSC / P3
TCSD	Fyrtex Swirl Chamber combined TCSD / P4
TCSE	Fyrtex Swirl Chamber combined TCSE / P5
TCSF	Fyrtex Swirl Chamber combined TCSF / P6
TCSG	Fyrtex Swirl Chamber combined TCSG / P7
TCSH	Fyrtex Swirl Chamber combined TCSH / P8
TCI	Fyrtex Swirl Chamber combined TCSI / P9
TCSJ	Fyrtex Swirl Chamber combined TCSJ / P10
TCSK	Fyrtex Swirl Chamber combined TCSK / P11
TCSM	Fyrtex Swirl Chamber combined TCSM / P13

**All parts are made from durable tungsten carbide*



Fyrtext 1 Assembly Description and Part Numbers

Description	Part Number	Material
(A) Body (original)	A297760017	Stainless steel
(B) O-ring, orifice disc	G00018081	Gylon
(C) Fyrtext orifice disc	xxx*	Tungsten carbide
(D) Swirl chamber	See swirl chamber chart	Tungsten carbide
(E) Fyrtext round endplate	ENDRO	Tungsten carbide
(F) Screw pin (Original)	A297770016	Stainless steel
(G) O-Ring, Adapter	G00036291	Gylon
(H) 1/4 Adapter BSPT (Original)	A297750091	Stainless steel
(H) 3/8 Adapter BSPT (Original)	A297750117	Stainless steel
(H) 1/2 Adapter BSPT (Original)	A297750133	Stainless steel
(H) 3/4 Adapter BSPT (Original)	A297750158	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	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