



Technical Overview

Fyrtex SK

Fyrtex SK is the smallest model in the Fyrtex line, built for precise, low-flow spray drying of sensitive products. Its SK layout suits labs, box dryers, and applications like baby food and pharma powders. A tungsten carbide core and insert (M-, Y- or Z-grade) ensure long life and reliable performance, while the 316 stainless steel body and adapter add durability.



Technical Specifications*

Construction	Body, Adapter, Core, Insert, Gasket
Max. Operation Pressure	35 to 450 bar (7000 psi) with a slotted design for fine-tuning drop size and spray distribution
Compatibility	Spray Systems SK SprayDry® nozzle
Performance	Small droplets from low flow, high pressure. MFP option reduces clogging and extends runtime. Anti-bearding design minimizes build-up and contamination
Applications	Box/pilot dryers, infant formula, pharmaceuticals, enzymes and specialty chemical

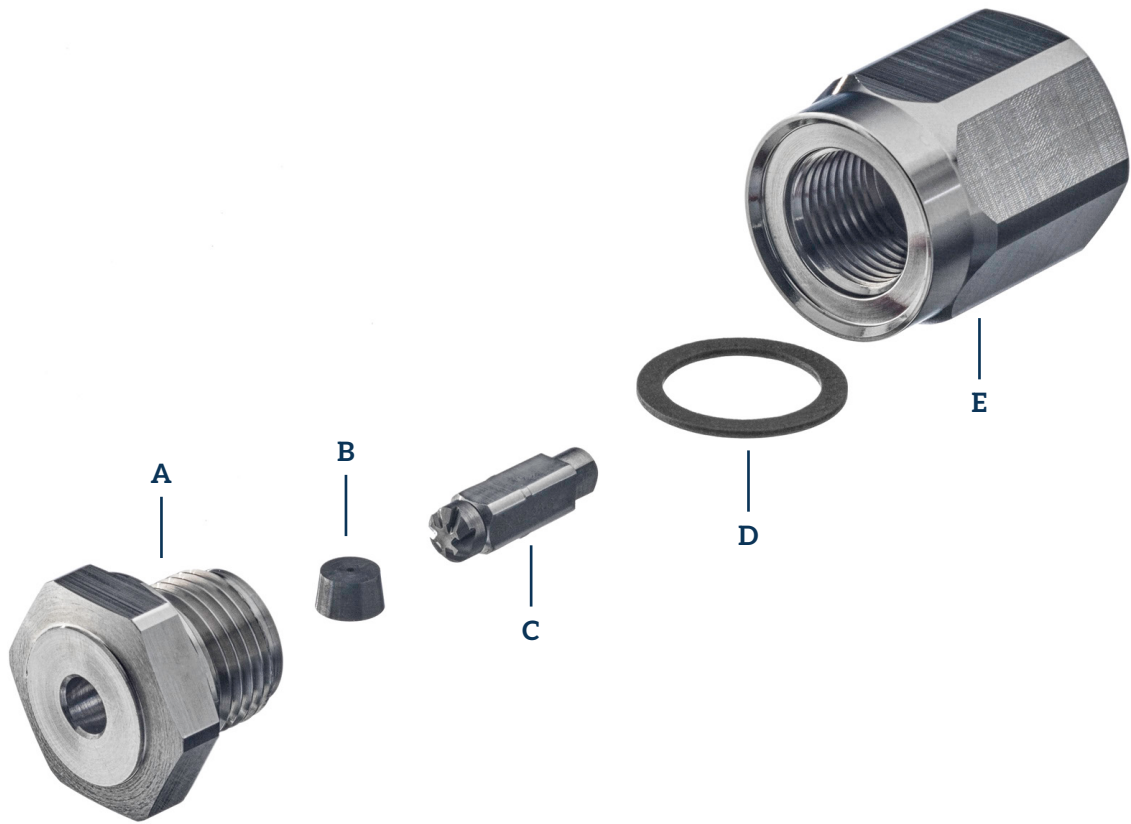
Fyrtex SK Core Chart: Square	
Part no.	Description
16-2	Fyrtex SK Core 16 square, 2 slides
17-4	Fyrtex SK Core 17 square, 4 slides
20-2	Fyrtex SK Core 20 square, 2 slides
21-4	Fyrtex SK Core 21 square, 4 slides
27-4	Fyrtex SK Core 27 square, 4 slides
28-6	Fyrtex SK Core 28 square, 6 slides

**All parts are made from Y/M/Z carbide*

Fyrtex SK Core Chart: Triangle	
Part no.	Description
16-2	Fyrtex SK Core 16 triangle, 2 slides
17-2	Fyrtex SK Core 17 triangle, 2 slides
21-2	Fyrtex SK Core 21 triangle, 2 slides
28-4	Fyrtex SK Core 28 triangle, 4 slides

**All parts are made from Y/M/Z carbide*





Fyrtex SK Assembly Description and Part Numbers

Description	Part Number	Material
(A) Head Fyrtex SK	HEAD-RKA-SS	SS 316
(A) Head Fyrtex SK MFP	HEAD-RKAM-SS	SS 316
(B) Fyrtex SK Insert	RKI-xx	"Y" carbide
(B) Fyrtex SK Insert	RKIM-xx	"M" carbide
(B) Fyrtex SK Insert	RKIZ-xx	"Z" carbide
(C) Core	See Core charts	Tungsten carbide
(D) Fiberring RKA	10500200	Fiber
(E) Body Fyrtex SK 1/4	BODY-RKA-1	SS 316
(E) Body Fyrtex SK 3/8	BODY-RKA-SS3/8	SS 316

*Fyrtex SK Inserts available types 36 (2,72 mm) through 76 (0,50 mm)

Example article number Fyrtex: RKI-52 (1,61 mm) y-car

Example article number Fyrtex: RKIM-44 (2,18 mm) m-car

Capacity chart nozzle series SK

Insert		Core type	Spray Angle	Flow rate in Litres/Hour at BAR							
Type	Dia. mm			at 70 BAR	35	70	100	150	200	250	300
76	0,50	17	59°	22,8	31,6	37,4	45,4	52,0	57,7	62,9	72,1
74	0,57	17	63°	27,4	38,1	45,2	54,7	62,7	69,7	76,0	87,1
76	0,50	21	48°	29,7	41,2	48,7	59,0	67,6	75,1	81,9	93,8
72	0,63	17	66°	32,1	44,6	52,9	64,1	73,5	81,8	89,2	102
74	0,57	21	52°	35,7	49,6	58,7	71,1	81,5	90,6	98,8	113
72	0,63	21	55°	41,1	57,2	57,8	82,2	94,3	105	114	131
71	0,66	21	56°	43,3	60,2	71,4	86,6	99,4	111	121	138
68	0,78	17	73°	43,2	60,2	71,5	86,9	99,8	111	121	139
67	0,81	17	74°	45,1	62,9	74,7	90,8	104	116	127	146
65	0,88	17	77°	49,6	69,4	82,5	100	115	128	140	161
71	0,66	21	56°	43,3	60,2	71,4	87	99	111	121	138
68	0,78	17	73°	43,2	60,2	71,5	87	100	110	121	139
67	0,81	17	74°	45,1	62,9	74,7	90,8	104	116	127	146

Insert		Core type	Spray Angle	Flow rate in Litres/Hour at BAR							
Type	Dia. mm			at 70 BAR	35	70	100	150	200	250	300
48	1,93	27	83°	232	329	393	481	556	621	681	786
52	1,62	28	67°	254	359	429	525	607	678	743	858
44	2,18	27	85°	270	381	456	558	645	721	790	912
51	1,70	28	69°	278	393	470	575	664	742	813	939
50	1,77	28	70°	289	408	488	597	690	771	845	976
42	2,38	27	87°	289	408	488	597	690	771	845	976
40	2,48	27	87°	305	431	515	631	729	815	892	1030
48	1,93	28	72°	324	458	547	670	774	865	948	1094
46	2,05	28	74°	348	492	588	720	832	930	1010	1170
44	2,18	28	75°	369	523	625	765	883	988	1080	1240
42	2,38	28	77°	396	561	670	821	948	1050	1160	1340
40	2,48	28	77°	407	576	688	843	974	1080	1190	1370

* +/- 5% tolerance on low

** Capacity chart based on water

Insert		Core type	Spray Angle	Flow rate in Litres/Hour at BAR							
Type	Dia. mm			at 70 BAR	35	70	100	150	200	250	300
65	0,88	17	77°	49,6	69,4	82,5	100	115	128	140	161
71	0,66	21	56°	43,3	60,2	71,4	87	99	111	121	138
68	0,78	17	73°	43,2	60,2	71,5	87	100	110	121	139
70	0,71	21	59°	50,4	70,2	83,2	101	116	129	141	161
63	0,93	17	79°	52,0	72,8	86,6	105	121	135	148	170
72	0,63	27	46°	55,4	77,0	91,3	111	127	141	154	177
61	0,99	17	81°	55,5	77,8	92,5	113	130	145	158	182
71	0,66	27	47°	58,1	80,8	85,8	116	133	148	162	186
68	0,78	21	62°	59,0	82,4	97,8	119	136	152	166	190
58	1,06	17	82°	60,1	84,3	100	122	141	157	172	198
65	0,88	21	66°	65,7	91,9	109	133	153	170	186	213
70	0,71	27	49°	66,2	92,3	109	133	152	170	185	212
64	0,91	21	67°	69,2	96,9	115	140	161	179	196	225
63	0,93	21	68°	71,1	99,5	118	144	166	185	202	232
55	1,32	17	90°	74,9	106	126	154	178	199	218	251
67	0,81	27	54°	78,4	109	130	158	181	202	220	253
61	0,99	21	70°	78,1	109	130	159	182	203	222	256
59	1,04	21	72°	82,7	116	138	168	194	216	236	271
58	1,06	21	73°	85,3	120	143	174	200	223	244	281
65	0,88	27	57°	86,2	120	143	174	200	223	244	280
63	0,93	27	59°	94,3	132	157	191	220	245	267	307
66	0,83	28	45°	102	142	169	205	236	263	287	330
59	1,04	27	63°	106	148	177	215	248	276	302	347
57	1,09	27	64°	112	158	188	229	264	294	322	371
55	1,32	21	80°	112	158	188	231	266	297	325	375
64	0,91	28	47	115	161	191	232	267	297	325	373
62	0,96	28	49°	125	175	209	254	292	326	356	409
56	1,19	27	67°	126	177	211	258	297	332	363	419
53	1,52	21	84°	130	184	220	270	311	348	381	440
58	1,06	28	52°	143	201	239	292	336	374	409	471
51	1,70	21	87°	154	218	261	319	369	412	452	522
54	1,39	27	73°	156	221	264	323	373	417	457	528
50	1,77	21	88°	159	224	268	328	379	424	464	536
48	1,93	21	90°	174	246	294	360	416	465	509	588
52	1,62	27	78°	183	259	309	379	437	489	535	618
55	1,32	28	60°	194	274	327	400	462	516	565	562
51	1,70	27	80°	197	278	333	408	471	526	576	666
49	1,85	27	82°	222	314	375	459	530	593	649	749
53	1,52	28	65°	231	326	390	477	551	616	675	780

* +/- 5% tolerance on flow

** Capacity chart based on water