

# Flameless Explosion Venting

## Type FlamQuench™ II SQ

The most common basis of safety for protecting industrial processes against the effects of dust explosions is explosion relief venting.

Fike's FlamQuench II SQ technology consists of various layers of high temperature stainless steel mesh, which absorb the heat produced during the combustion and retain the dust particles, allowing conventional venting to be used indoors with no release of flame and marginal release of dust particles.



### SPECIFICATIONS

Type	FlamQuench™ II SQ		
Available metric and imperial sizes	18" x 24"; 24" x 24"; 18" x 35"; 24" x 36"; 36" x 36"; 36" x 44"; 38" x 46"	400x500mm; 500x500mm; 500x800mm; 470x570mm; 566x900mm; 900x900mm; 1110x1110mm	
Material of Construction	Painted Carbon steel		
Compatible Explosion vents <sup>(1)(2)</sup>	CV, CV-S, SANI-V, SANI-V-S, VV-S and CV-SF		
Operating Conditions	Not exposed to process conditions		
Operating Temperature Range	-40°F to +500°F	-40°C to +260°C	
Ambient Temperature	-40°F to +140°F	-40°C to +60°C	
Maximum Protected Volume	See manual E06-085 for more information		
Explosion Hazards			$K_{st}$
			$P_{red\ max}$
	$P_{max}$		
Compliant	NFPA68		
<b>Approvals<sup>(3)</sup></b>			
ATEX Approvals	Marking	 II D	
	Norms	EN 16009:2011	
	Certification	INERIS 20ATEX0045X	
European Conformity CE Approval	CE 0948		
UKCA Approval	Approval	UKCA	
	Certification	CML 21UKEX9363X	

- 1) The CV-SF has no ATEX approval. Insulated (CV-I) and Core Filled (CV-CF) vent types shall not be used with flameless venting devices, because fragments of the insulation or filling material may block the flame filter and decrease explosion venting performance.
- 2) Armaflex insulation on the panels is supported.
- 3) See Ordering section for applicable approvals by part number.

### OPTIONS

- Dust Cover

The Dust Cover is suited for indoor protection against dust and can also be suited for mild weather protection in outdoor installations, but is not suited to protect against harsh outdoor weather conditions with intense wind, rain- or snowfall. If there is a question about whether the dust cover is suitable, trials should be executed first to determine if the cover is adequate for the weather condition specific to the application.

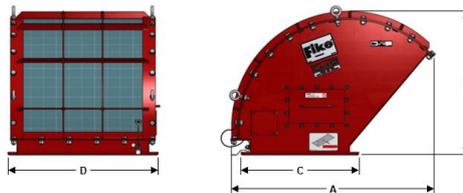


Temperature range		Material
-40°F to 302°F	-40°C to +150°C	Alpha Maritex double-sided silicone-coated glass fiber cloth

### INSTALLATION REQUIREMENTS

The FlamQuench II SQ will be installed directly onto the explosion vents, with the gaskets typically attached to the Fike explosion vent upon delivery. The explosion vent installed under the FlamQuench II SQ must have an integrated Rupture indicator. Bolts, washers and nuts are provided by the customer.

### DIMENSIONS



FlamQuench II SQ													
Size	Dimensions								Weight		Bolt Specifications		
	A		B		C		D		lbs	Kg	Qty	Size	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm				Inch	mm
18" x 24"	37.60	955	26.73	679	21.46	545	27.48	698	230	104	24	3/8"	M10
24" x 24"	47.31	1202	32.35	822	27.65	702	27.66	703	310	141	28	3/8"	M10
18" x 35"	37.28	947	26.55	674	21.65	550	38.66	982	302	137	28	3/8"	M10
24" x 36"	47.48	1206	32.72	831	27.48	698	39.49	1003	400	181	34	3/8"	M10
36" x 36"	67.20	1707	45.9	1165	39.50	1003	39.50	1003	705	320	40	3/8"	M10
36" x 44"	67.06	1703	45.92	1166	39.66	1007	47.66	1211	783	355	44	3/8"	M10
38" x 46"	70.51	1791	46.69	1186	41.73	1060	49.72	1263	845	383	44	3/8"	M10
400 x 500 mm	35.24	895	25.39	645	20.16	512	24.09	612	165	75	22	3/8"	M10
500 x 500 mm	41.73	1060	29.33	745	24.09	612	24.09	612	201	91	24	3/8"	M10
500 x 800 mm	41.73	1060	29.33	745	24.09	612	35.91	912	254	115	30	3/8"	M10
470 x 570 mm	39.76	1010	28.15	715	22.91	582	26.85	682	203	92	26	3/8"	M10
566 x 900 mm	45.98	1168	31.89	810	26.69	678	39.84	1012	304	138	34	3/8"	M10
900 x 900 mm	67.56	1716	46.06	1170	39.84	1012	39.84	1012	573	260	40	3/8"	M10
1110 x 1110 mm	81.18	2062	54.09	1374	48.70	1237	48.70	1237	783	355	32	3/8"	M10

ORDERING

Please include the following specifications when ordering a FlamQuench II SQ.

<b>Sizes</b>	18" x 24"	91208000	E34-004-1824 <sup>(4)</sup>
	24" x 24"	E34-004-2424 <sup>(4)</sup>	
	18" x 35"	E34-004-1835 <sup>(4)</sup>	
	24" x 36"	91209000	E34-004-2436 <sup>(4)</sup>
	36" x 36"	91211000	E34-004-3636 <sup>(4)</sup>
	36" x 44"	E34-004-3644 <sup>(4)</sup>	
	38" x 46"	91210000	E34-004-3846 <sup>(4)</sup>
	400 x 500	91200000	
	500 x 500	91201000	
	500 x 800	91204000	
	470 x 570	91212000	
	566 x 900	91213000	
	900 x 900	91214000	
	1110 x 1110	91217000	
	<b>Dust Cover</b>	18" x 24"	91420588-S
24" x 24"		91424088-S	
18" x 35"		91421188-S	
24" x 36"		91420688-S	
36" x 36"		91420888-S	
36" x 44"		91424188-S	
38" x 46"		91420788-S	
400 x 500		91420088-S	
500 x 500		91420188-S	
500 x 800		91420288-S	
470 x 570		91420388-S	
566 x 900		91420488-S	
900 x 900		91421088-S	
1110 x 1110		91420988-S	

4) This part number has no ATEX or CE approval.