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## PRODUCT INFORMATION



# Q-FLAP NX NOV<sub>Ex</sub> COST EFFECTIVE PASSIVE ISOLATION OF DUST COLLECTORS AND CYCLONES

## Applications

Q-Flap NX explosion isolation valve can be used to isolate explosions effectively in virtually all industries. The Q-Flap NX is suitable in filter lines with horizontal ductwork.

## Your advantages

- Meets or exceeds NFPA standard 69 requirements.
- Fully certified in accordance with ATEX requirements.
- Flexible use in your process: Q-Flap NX is available for all standard nominal diameters up to DN 1000.
- Inspection cover opens easily for maintenance without completely removing the device.
- Is suitable for up to ST3 dusts.
- Monitoring of flap position and dust accumulation are standard.
- Other options available upon request.

## Certification



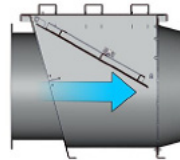
ATEX  
EC type examination  
certificate no.  
LOM11ATEX7047X



Meets the  
requirements  
of NFPA 69

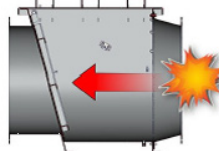
## Mechanism

Normal operation:



During normal operation, the Q-Flap NX device remains opened due to magnets integrated inside the valve. The flap will close in the event of an explosion.

Explosion event:



In the event of an explosion in any of the downstream equipment, the pressure wave will propagate towards the Q-Flap NX. This pressure wave will force the flap closed, preventing the explosion from propagating to other upstream processes. Employees working at capturing points or system components upstream of the Q-Flap NX are protected against the effects of the explosion. The flap locking mechanism prevents the flap from reopening shortly after the explosion due to the low pressure created in its aftermath.



The Q-Flap NX ensures reliable explosion isolation to protect your plant and minimize the effects of an explosion.

You can find detailed information and contact details for enquiries relating to Q-Flap NX at [www.rembe.us](http://www.rembe.us).  
Give us a call on: T +1 704 716 7022 or contact us via email: [info@rembe.us](mailto:info@rembe.us).





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### Technical data\*

Diameter nominal**		71	100	150	200	250	300	355	400	450	
Dimensions [in/mm]	Length L	17.3 440	18.5 469	20.4 519	22.4 569	24.4 619	27 669	28.5 724	30.3 769	32.2 818.8	
	Width W	13.7 349	15.2 386	16.9 428	18.82 478	23.6 600.1	25.6 650	29.2 742	31 788	32.9 837	
	Height H	10.4 265	9.8 249	13.6 344	15.5 394	19.15 486.3	21.1 536	22.1 562	24 610	25.9 657	
Weight	lbs/kg	37 17	45 21	58 27	74 34	99 45	119 54	159 71	178 81	203 92	
Dust explosion class		St1 and St2									
Max. $K_{st}$ value	barm/s	300									
Max. reduced explosion overpressure in the enclosure (Max. $P_{red}$ ) **	bar	2.0									
Min. mounting distance	[ft/m]	9.84/3									
Max. mounting distance	[ft/m]	32.8/10									
Min. Volume	[ft <sup>3</sup> /m <sup>3</sup> ]	35.3 1	40.3 1.14	48.4 1.37	56.5 1.6	64.6 1.83	73.1 2.07	81.9 2.32	89.3 2.53	97.8 2.77	

Diameter nominal**		500	560	600	710	800	900	1000
Dimensions [in/mm]	Length L	34 869	36.5 928	38.2 969	42.5 1078	46 1169	50 1269	53.9 1369
	Width W	34.9 887	39.4 1000	41 1040	145.5 1155	49 1245	52.9 1345	56.9 1445
	Height H	27.8 707	32.3 820	33.7 856	38.3 972	43.2 1097	45.8 1162	49.7 1262
Weight	lbs/kg	229 104	305 139	330 150	410 186	480 218	560 254	648 294
Dust explosion class		St1 and St2						
Max. $K_{st}$ Value	barm/s	300						
Max. reduced explosion overpressure in the enclosure (Max. $P_{red}$ ) **	bar	1.0						
Min. mounting distance	[ft/m]	9.84/3	16.4/5					
Max. mounting distance	[ft/m]	32.8/10	42.7/13					
Min. Volume	[ft <sup>3</sup> /m <sup>3</sup> ]	105.9 3	110.2 3.12	113 3.2	120.8 3.42	127.1 3.6	134.2 3.8	141.3 4

\*Our specialists are ready to assist you in finding a solution that matches your specific conditions

\*\*The pipe between the Q-Flap NX and the explosion-protected enclosure must have at least the same explosion pressure resistance as the Q-Flap NX itself.

Mounting position	Horizontal
Temperature	-4 °F to 140 °F (-20 °C to 60 °C)
Materials	Housing: Carbon Steel (SS available); Flap: SS, AISI304
Paint	red

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