



Safety is for life.™

## PRODUCT INFORMATION



## MAXIMUM VENTING EFFICIENCY – MINIMUM WEIGHT

### Flameless Venting for Elevators

The Q-Ball® E guarantees safe relief of a combustible dust explosion. Efficient cooling inside the Q-Ball® E prevents the flames from escaping and minimizes the effects of the explosion pressure to an insignificant level.

The Q-Ball® E is suitable for flameless venting of mechanical conveyors and can handle explosions with  $K_{st}$  values up to 200 bar × m/s can be handled.

The Q-Ball® E is available in multiple sizes to match many of the standard conveyors and elevators. Additionally, the low weight of the Q-Ball® E reduces the need to reinforce the elevator supports. These features make installation simpler and quicker.

The Q-Ball® E ensures the maximum relief efficiency due to the newly developed principle of full body venting. This new design increases the effective vent area of each flameless vent thus reducing the number of units required.

### Your Advantages

- **Maximum venting efficiency** through full body flameless venting.
- **Easy maintenance** through an integrated inspection opening.
- **Integrated signaling unit** for a reliable monitoring.
- **Can be utilized indoors or outdoors.**
- **Easy retrofitting of existing REMBE® vent panels possible.**

Supported by:  
Federal Ministry for Economic Affairs and Energy  
on the basis of a decision by the German Bundestag

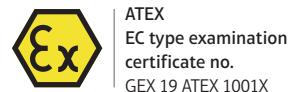


The sanitary cover protects the Q-Ball® E against dust from outside sources.

### Technical Data

$K_{st}$ -Value	≤ 200 bar × m/s
$P_{max}$	≤ 9 bar
Minimum ignition energy	≥ 3 mJ
Minimum ignition temperature	≥ 380°C
Static response pressure	0.1 bar
Max. red. explosion pressure $P_{red}$	1.95 bar
Ambient temperature	-40 to +140°F [-40 to +60°C]
Process temperature	-22 to +185°F [-30 to +85°C] (higher temperatures available on request)

Diameter nominal [mm]	Height in [mm]	Width in [mm]	Length in [mm]	Weight lbs [kg]
180 × 420	15.75 [400]	15.75 [400]	22.44 [570]	33.07 [15]
205 × 610	18.90 [480]	16.54 [420]	30.70 [780]	44.10 [20]
305 × 610	19.69 [500]	20.47 [520]	30.71 [780]	55.12 [25]



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REMBE® Inc. 3809 Beam Road Suite K | Charlotte, NC 28217, USA | T +1 704 716 7022 | F +1 704 716 7025 info@rembe.us | www.rembe.us

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