

# Flameless venting of gas turbine and engine exhaust (GEX)

The most commonly applied explosion-protecting method for gas turbine and engine exhaust systems is explosion relief venting. An explosion vent is a pressure relief device, designed to give an instantaneous opening at a predetermined pressure to a closed system. Its purpose is to protect this system from excessive pressures caused by dust or gas explosions. Fike's FlamQuench™ II technology consist of various layers of high temperature stainless steel which absorb heat produced during the combustion, allowing conventional venting to be done indoors with no release of flame. GEX is the Fike type designation for the FlamQuench II technology for flameless venting of gas turbine and engine exhaust systems.



## SPECIFICATIONS

<b>Type</b>	GEX
<b>Sizes</b>	DN200 – DN1400
<b>Material of Construction</b>	Zinc-coated Stainless Steel
<b>Compatible Explosion vents</b>	CV-I, CV-S-I, CV-I-HT, CV-S-I-HT and EXV-GEP-I
<b>Operating Conditions</b>	Not exposed to process conditions
<b>Operating Temperature Range</b>	-40°C to 600°C
<b>Approvals</b>	
<b>Other Approvals</b>	EAC

## INSTALLATION REQUIREMENTS

The GEX will be installed directly onto the explosion vents, with the gaskets typically attached to the Fike explosion vent upon delivery. Except for the EXV-GEP-I, a customer supplied high temperature gasket is required to be installed on top of the EXV-GEP-I.

Bolts, washers and nuts are provided by the customer.

DIMENSIONS



GEX Assembly					
Size	Dimensions		Weight	Bolt Specifications	
	H (mm)	ID (mm)	Kg	Qty	Size
DN200 PN6	418	207.3	±20	8	M16
DN250 PN6	471	260.4	±26	12	M16
DN300 PN10	521	309.7	±39	12	M20
DN350 PN10	552	341.4	±39	16	M20
DN400 PN10	603	392.2	±47.5	16	M24
DN450 PN10	654	442.8	±55	20	M24
DN500 PN10	705	493.8	±67.5	20	M24
DN600 PN10	821	595.8	±96	20	M28
DN800 PN10	1062	797.0	±167	24	M30
DN1000 PN6	1310	1022.0	±237	32	M20
DN1200 PN2.5	1492	1204.0	±394	32	M30
DN1400 PN2.5	1732	1406.0	±531	36	M28

- 1) All material SST 304 (1.4301), non-asbestos gasket between flame filter and hold down.
- 2) Refer to applicable standards for flange dimensions and bolt circle and bolt hole details.

ORDERING

Please include the following specifications when ordering a GEX.

<b>Size</b>	DN200 – DN1400
<b>Flange rating<sup>(3)</sup></b>	PN2,5 – PN10

- 3) Other flange ratings are available upon request, contact Fike.