

EVT

Explosion Relief Valves

Application:

Engine Intake and Exhaust Manifold

General Description

The Explosion Relief Valve EVT is a reusable, flameless venting device, which is designed for the protection of personnel and equipment in case of gas explosions, engine “misfire” or “back-fire.” In the event of an explosion, the venting device opens by lifting the valve plate, and directs the vented explosion through the flame arrester, preventing flames from being expelled to the surrounding areas. With the support of special designed disc springs, the valve plate closes and resets immediately after the pressure relief.

Key Features

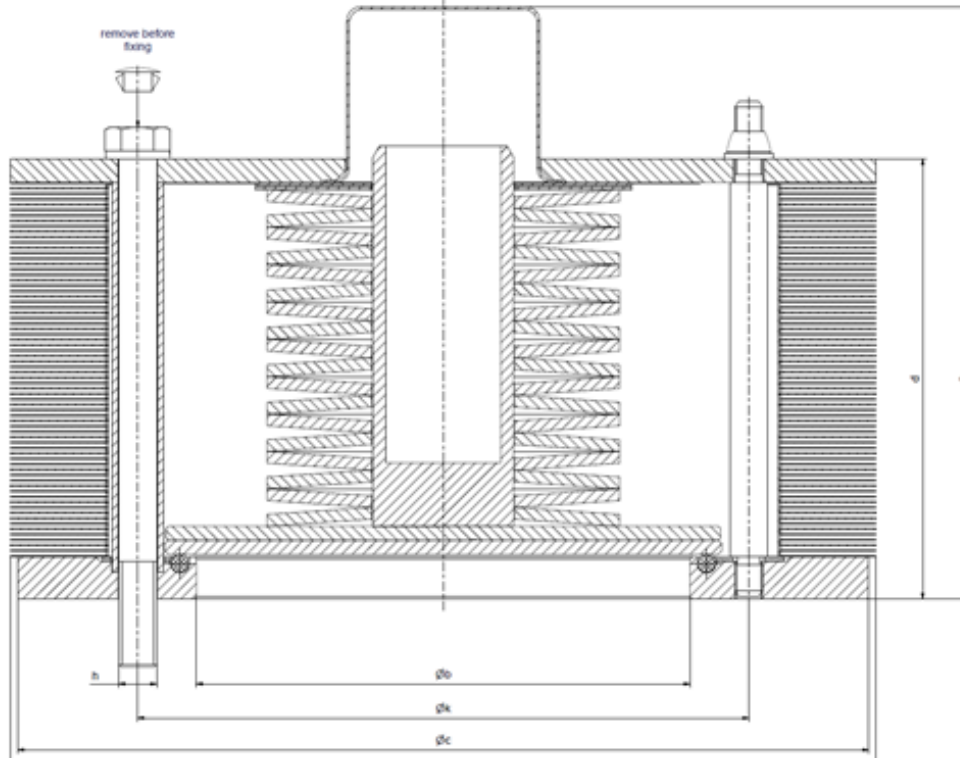
- Certified according international standards
- Flameless explosion pressure relief.
- Re-closing: The fast re-closing function mitigates a secondary explosion caused by fresh air-inrush and gas leakage into the environment.
- Re-useable: No shutdown required after an activation.
- Flexibility due to variable installation position.

Application

Explosions can occur in the exhaust systems of combustion engines when low flash point fuels are used. The combination of engine misfire or backfire prevention and the use of relief valves is a proven way to mitigate equipment damage from overpressure and flame, and prevent injury to personnel.



Technical Data



Type	Geom. Relief Area [cm ²]	Dimensions					Connection			Approx Weight [kg]
		a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	No. of bolts	h Thread	k P.C.D. [mm]	
98 EVT	58	216	86	216	max. 120	max. 150	4	M10 or 3/8"	126	15
122 EVT	95	260	110	236	max. 160	max. 200	6	M10 or 3/8"	150	25
173 EVT	201	305	160	300	max. 210	max. 260	6	M10 or 3/8"	203	35
224 EVT	346	368	210	362	max. 250	max. 315	8	M16 or 5/8"	260	50

*Valve heights depend on application and static opening pressure

Additional Notes

- Material of construction depends on intake or exhaust manifold application.
- Opening pressure tailor made to specific engine application.

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