EVT EXPLOSION RELIEF VALVES



EVT

PRODUCT INFORMATION SHEET

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, or engine "mis-fire" 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. The relief valve type EVT is equipped with disc springs, immediately after the pressure event, the valve plate closes and resets.

Features

- ATEX and IACS certification
- Optimum protection for personnel and equipment
- Flameless explosion pressure relief
- No shut-down required after an explosion/back-fire
- Flexibility due to variable installation position
- All valves are functionally tested when built





Explosions can occur in the intake or exhaust manifolds of combustion engines when gaseous fuels are used. Gaseous fuels are a continual presence in the intake manifold(s), while the exhaust manifolds may contain unburnt gaseous fuel in both dual-fuel and gas engines, especially during start-up or fuel-mapping stages. The techniques of mis-fire or back-fire prevention and the use of relief valves is a proven way to mitigate equipment damage from over-pressure and flame, and prevent injury to personnel.







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Protection of Intake and Exhaust Manifolds for dual-fuel and gas engines

| Туре | Geom. Relief Area [cm²] | Dimensions | | | | | Connection | | | Approx |
|---------|----------------------------------|------------|-----------|-----------|-----------|-----------|-----------------|-------------|---------------------|--------|
| | | a [mm] | b [mm] | c [mm] | d [mm] | e [mm] | No. of bolts | h Thread | k P.C.D. [mm] | [kg] |
| 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 | M16 or 3/8" | 150 | 25 |
| 173 EVT | 201 | 305 | 160 | 300 | max. 210 | max. 260 | 6 | M16 or 3/8" | 203 | 35 |
| 224 EVT | 346 | 368 | 210 | 362 | max. 250 | max. 315 | 8 | M16 or 5/8" | 260 | 50 |

Manufactured Material dependent on the specific application

Additional Notes

- Maximum Safety Distance Required: 1.5 meters in radial direction and 0.5 meters in axial direction
- Counter-flange Kit (gasket/hardware) sold separately
- Sensor Control unit sold separately