



ABOVEGROUND STORAGE TANK SAFETY

Emergency Vent (Pressure Relief Only)

Series 2049

Protects an aboveground storage tank from over-pressure and rupture if it is ever exposed to fire. Sizes 1½" to 8", weight-loaded, with capacity certified by an independent third party.



COMPLIANCE

API 2000 · FM 6061 · NFPA 69 · USCG 33CFR154 · UL 525
· UL 58 · UL 142 · UL 2244

Product Overview



The **Series 2049** is a PRE'CON emergency vent (pressure relief only) for aboveground storage tanks. Fitted as a code requirement, it helps stop the tank becoming over-pressurised and possibly rupturing if it is ever exposed to fire.

The emergency vent is used **together with a "normal vent"**, not instead of one. Correct application needs the right vent size and selection for the tank system, so that the specific venting capacity is met.

Pressure relief only

½" – 8"

Weight-loaded

Viton seat

Key Features

Fire-exposure protection

Opens at a set pressure to relieve the extra vapour generated when a tank is exposed to fire.

Certified flow capacity

Flow capacity is certified from an actual test at Pressure & Flow Control Industries, per API 2000, and verified by an independent third-party inspection agency (BVIS).

Wide size range

Available from ½" to 8" nominal size, to match the venting requirement of the tank.

Choice of connection

Male or female NPT, BSP male / female, or flanged to ASME B16.5, DIN, PN or API.

Viton seat & mesh screen

Viton seat material and a 3-mesh stainless steel screen.

Body & cover options

Aluminium, brass or iron body; cast iron (powder coated), brass or hard-coated aluminium cover.

Typical Applications

- Aboveground flammable and combustible liquid storage tanks
- Fuel storage at retail outlets, fleet depots, marine and industrial sites
- Any tank where the code requires emergency relief in addition to normal venting

Technical Specifications

General	
Series	2049
Type	Emergency vent, pressure relief only (weight-loaded)
Size	½" to 8" (graph covers 40 mm to 300 mm NB)
Mounting connection	Male NPT · Female NPT · BSP male / female · Flanged to ASME B16.5, DIN, PN or API
Body material	Aluminium, brass or iron
Cover	Cast iron (powder coated), brass or hard-coated aluminium
Seat material	Viton
Screen	3-mesh stainless steel
Bolting	Zinc-plated steel
Performance	
Pressure setting (opening pressure)	8 oz/in ² or 16 oz/in ²
Venting capacity	As per flow capacity graph (page 4)
Capacity certification	Test per API 2000, third-party verified (BVIS)
Use	With a normal vent; must be correctly sized for the tank

Ordering Information

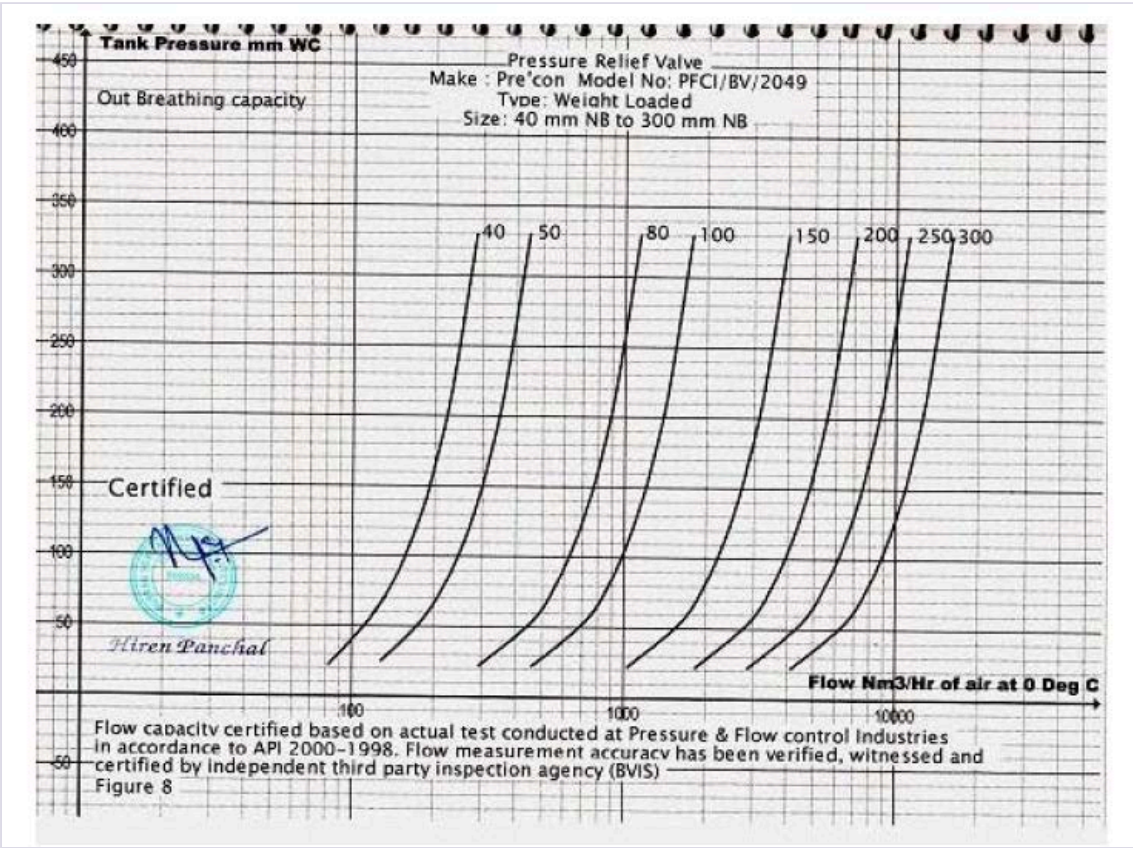
2049 – [MNPT | FNPT | BSP | FL] – [½" ... 8"] – [8 | 16 oz/in²]

- **MNPT / FNPT** – male / female NPT **BSP** – BSP male / female **FL** – flanged (ASME B16.5, DIN, PN, API)
- Size ½" to 8"; pressure setting 8 or 16 oz/in²
- Please also state body material, cover material and the required venting capacity.

Specifications are subject to change without notice. Dimensions and weights are available on request.

Flow Capacity Curve

Out-breathing capacity, pressure relief valve model PFCI/BV/2049, weight-loaded, sizes 40 mm NB to 300 mm NB. Curves are labelled by size in mm.



Axes: tank pressure in mm WC against flow in Nm³/hr of air at 0 °C. Flow capacity is certified from an actual test at Pressure & Flow Control Industries in accordance with API 2000-1998, and flow measurement accuracy was verified, witnessed and certified by an independent third-party inspection agency (BVIS). Figure 8.

8 / 16

oz/in² pressure settings

½" – 8"

size range

40–300

mm NB on certified curve

BVIS

third-party verified

Standards & Code Compliance

Compliance to international standards: API 2000, FM 6061, NFPA 69, USCG 33CFR154, UL 525, UL 58, UL 142, UL 2244.

When properly sized for the tank, the Series 2049 conforms to the requirements of:

Fire codes	International Fire Code · National Fire Code of Canada
NFPA	NFPA 20, 30, 30A, 31, 37, 110
Petroleum Equipment Institute	PEI RP200, PEI RP800
Underwriters Laboratories	UL 142, UL 2085, UL 2244
Underwriters Laboratories of Canada	CAN/ULC S601, S602, S652

Conformity depends on correct vent sizing and selection for the tank system. Please contact us to confirm sizing for your application.



ABOUT US

Pressure & Flow Control Industries

PRE'CON® is a registered trademark of Pressure & Flow Control Industries, an ISO-certified manufacturer of breather valves, flame arresters and tank safety equipment, based in Vadodara, Gujarat. Founded in 1975, we serve oil & gas storage and petrochemical customers in nearly 20 countries.

Since 1975

ISO-certified manufacturer

Breather valves

Flame arresters

Emergency vents

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TO ORDER OR ENQUIRE

Please quote **Series 2049**, connection type, size, pressure setting (8 or 16 oz/in²), body and cover material, and the venting capacity required.