



PRODUCT CATALOGUE

Pipe Away Type

MODEL PFCI/BV/2047 — COMBINED PRESSURE & VACUUM, WEIGHT LOADED & SPRING LOADED

Closed vent design that pipes hazardous vapours away instead of releasing them directly to atmosphere at the tank nozzle.





Overview

The Pre'con Model PFCI/BV/2047 Breather Vent — Pipe Away is designed for installations where discharged vapours are not allowed to be readily released to atmosphere. The closed vent design routes both pressure and vacuum relief flow through a side discharge connection instead of an open weatherhood.

Standard material of construction for the body is Cast Aluminium, Cast Steel or Stainless Steel 304/316. Seats and pallets are made of Aluminium or Stainless Steel 304/316, and the seats are easily replaceable.

How It Operates

Pressure Relief — Out-Breathing: when the vapour space pressure within a storage tank exceeds the set point, the pressure pallet lifts, routing vapour through the side discharge connection until the pressure is reduced below the set point.

Vacuum Relief — In-Breathing: when a vacuum is created within a storage tank and exceeds the set vacuum point, the vacuum pallet lifts to admit atmospheric air into the tank until the vacuum is reduced to the set point.

Key Features

- Precon "air cushioning" PTFE diaphragms resist ice and gum formation caused by atmospheric moisture and resinous vapours, protecting against pallet sticking
- Carefully constructed seat and pallet assembly for high flow capacity with minimum overpressure
- Vertical central guiding system ensures proper seat alignment and maximum vertical lift of the pallet
- 100% in-house inspection and testing to meet all critical customer requirements
- Venting capacities tested and certified in accordance with API 2000, ISO 28300 and EN 14015
- Side discharge outlet allows connection to a vent header, vapour recovery system or disposal system
- Available in Weight Loaded and Spring Loaded configurations, including mixed pressure/vacuum loading arrangements

Technical Specifications

Table 1 — Selection of Body Material (Weight Loaded)

Description	A	B	C	D
Body	Cast Aluminium	CS	A351 CF8	A351 CF8M
Seat	SS304	SS304	SS304	SS316
Diaphragm	PTFE	PTFE	PTFE	PTFE
Stem	SS304	SS304	SS304	SS316
Side discharge	A106 Gr B / A36	A106 Gr B / A36	SS304	SS316
Screen	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Fasteners	MS Zinc plated	MS Zinc plated	SS304	SS316

Table 2 — Pallet Material Selection (Weight Loaded)

Description	A	B	C
Set pressure (mm WC)	15 to 30	30 to 100	100 to 400
Set vacuum (mm WC)	15 to 30	30 to 100	100 to 400
Pallet material	Aluminium	Stainless Steel	Stainless Steel with additional weight

Spring Loaded version offers higher set points (up to 10000 mm WC pressure, up to 8000 mm WC vacuum depending on option) with Stainless Steel pallets, in a choice of mixed loading arrangements — Pressure Spring-Loaded / Vacuum Weight-Loaded, Pressure & Vacuum Spring-Loaded, or Pressure Weight-Loaded / Vacuum Spring-Loaded — selected to match the application's set-point requirements. Any special materials — Teflon coating, FRP coating, Poly Propylene, Hastalloy or Titanium — are available upon request.

Design Standards & End Connections

- Design standards: API 2000, ISO 28300 and EN 14015.
- Venting capacities tested and certified in accordance with API 2000, ISO 28300 and EN 14015, verified by an independent third-party inspection agency.
- End connections: ANSI, DIN, JIS, BS & IS. Size range (Pre'con breather valve series): 1½" NB to 12" NB. Mounting holes are straddle centreline.

WHY PRECON

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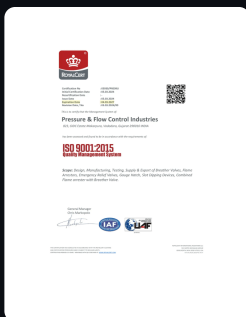
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CERTIFICATIONS



ISO 9001



ISO 14001



ISO 45001

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