

Crosby™ EM Series

Trusted Protection for Your Industrial Applications



CROSBY™

Reliable overpressure protection for air, gas, steam, vapour, liquid and two-phase applications in one simple design

Reliable and Versatile

The Crosby EM Series pressure relief valve provides overpressure protection from very basic to the most demanding applications. Backed by 150 years of engineering and application experience, its versatile and rugged design makes it a proven solution in all industrial applications.

Key Features

- OMNI-Trim®, robust designed trim works on gas, liquid and multi-phase applications
- Enhanced seat tightness
- Pop action for fast and accurate over pressure protection
- Full flow within 5% over pressure
- Balanced bellows design for reliable operation with back pressure
- Simple and modular design optimizing spare part inventory and reduced cost
- Restricted lift with a single ring reducing the risks associated with an oversized valve

CROSBY™
150
YEARS
OF SAFETY AND RELIABILITY



EMERSON™

Simple Design with Loads of Capabilities

Performances and Certifications

- **Pressure:** 0.2 to 40 barg / 2.9 to 580 psig
- **Temperature:** -196 to 427°C / -320 to 800°F

	Maximum Blowdown	Required Overpressure
Gas or Steam	10% or 0.3 bar / 4.4 psi	5% or 0.1 bar / 1.5 psi
Liquid	20% or 0.6 bar / 8.7 psi	10% or 0.1 bar / 1.5 psi

- **Seat tightness:** No more than 50% of API 527 allowable leakage
- **Fully certified in accordance to:**
 - ASME Boiler and Pressure Vessel Code Sections VIII and XIII
 - Pressure Equipment Directive ('PED') 2014-68-EU
 - Explosive Atmosphere Directive ('ATEX') 2014-34-EU
 - ISO EN 4126 part 1

Valve Styles and Configurations

		Backpressure		
Style		Built-Up	Constant	Variable Superimposed
EMC	Conventional, Closed Bonnet	to 15%	to 80%	Not suitable
EMH	Conventional, Open Bonnet	to 15%	Exhaust to atmosphere	
EMB	Balanced, Vented Bonnet	to 40%		

- **Materials:**
 - Carbon steel: 1.0619, SA216WCB/WCC, SA352LCB/LCC
 - Stainless steel: 1.4408, SA351CF8M/CF3M
- **Sizes:** 25 x 40, 32 x 50, 40 x 65, 50 x 80, 65 x 100, 80 x 125, 100 x 150
1 x 1½", 1¼ x 2", 1½ x 2½", 2 x 3", 2½ x 4", 3 x 5", 4 x 6"
- **Connections:** EN1092-1 PN10xPN10 to PN40xPN16, ANSI B16.5 150#x150# and 300#x150#
- **Optional accessories:** Test gag, lifting lever (open or packed), restricted lift, hardened seat, body drain

Contact Emerson for more information.

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