

Yarway™ blowoff and blowdown valves



YARWAY Reliable and proven steam solutions

Boiler blowoff and blowdown

Controlling water quality is critical for efficient boiler operation. Continuous blowdown controls the concentration of dissolved solids in the boiler, to prevent foaming or carryover of impurities and intermittent blowdown (or blowoff) removes sludge from the bottom of the boiler. These processes help maintain the boiler water quality within the prescribed limits.

Reliable blowoff and blowdown valves should be designed to minimize wire drawing, erosion, cavitation, flashing and other potential consequences of high-velocity fluid flow. Emerson's blowoff and blowdown valve portfolio includes:

- **Yarway blowoff valves**
 - Seatless, Hardseat and Unit Tandem
- **Yarway blowdown valves**
 - Hy-Drop and Hancock 5505

Blowoff and blowdown valves






Emerson offers durable blowoff and blowdown valves that meet ASME Section I code requirements, for these applications and are designed to resist wear by minimizing the risk of erosion, dirt damage, plugging and leaks.

Yarway Portfolio Highlights

- Seatless design reduces dirt, external leakage and plugging risks
- Stellite discs minimize wear for Hardseat, Hy-Drop and Hancock valves
- Compact Unit Tandem solution combines two blowoff valves in a single body
- Electric actuation available for Hardseat valve
- Various materials and geometries for low, medium and high-pressure applications
- In-line repairable valves for ease of maintenance



Blowoff and blowdown valves

Category	Model	Description	Materials	Size (in.)	ANSI Class	Max P (psi)
Blowoff valves	Seatless 	Seatless design minimizes risk of dirt damage, plugging and leakage. Live-loaded packing reduces leakage risk. Meets slow-opening requirement of ASME Section I code.	Cast iron Carbon steel	1 1.5 2 2.5	250 300 600	935
	Hardseat 	Stellite seat and disc designed to resist wear and prolong service life. Valve geometry designed to prevent damage to sealing surface caused by dirt and debris. Suitable for medium and high pressures. Electric actuation option available. Meets ASME Section I code requirements for blowoff valves.	Carbon steel	1.5 2 2.5	600 1500	2455
	Unit Tandem 	Two blowoff valves in a single body. Compact solution that meets ASME Section I code requirement for two blowoff valves in series.	Carbon steel	1 1.5 2 2.5	300 600 1500 2500	3206
Blowdown valves	Hy-Drop 	In-line repairable valve with stellite seat and disc for extended service life. Conical disc with micrometer dial for adjustable, accurate and repeatable settings. Valve geometry designed to prevent damage caused by flashing steam or cavitation. Various orifice sizes available. Pneumatic or electric actuation option available.	Carbon steel Chrome moly	1 1.5	1700 2700	
	Hancock 5505 	1-piece forged body with graphite packing. Valve geometry designed to prevent damage caused by flashing steam or cavitation. Disc and seat hard-faced with stellite. Micrometer dial position indicator for precise settings. Various orifice sizes available.	Carbon steel	1	800	

Emerson Automation Solutions

Americas

T +1 800 558 5853
T +1 972 548 3574

Europe

T +39 051 419 0611

Asia Pacific

T +65 6777 8211

Middle East / Africa

T +971 4811 8100

 webadmin.regulators@emerson.com

 Emerson.com

 [Facebook.com/EmersonAutomationSolutions](https://www.facebook.com/EmersonAutomationSolutions)

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