

Boiler Trim Valves and Steam traps



Seatless

The Seatless design minimizes the risk of dirt damage, plugging, and leakage. Its live-loaded packing reduces the risk of leakage, and it meets the slow-opening requirement of ASME Section I Code.

The valve is constructed with cast iron and carbon steel materials.

It is available in 1", 1.5", 2", and 2.5" sizes, with ANSI Class 250, 300, and 600 ratings. The maximum pressure rating (Max P) is 935 psi.



Hardseat

The Hardseat model features a Stellite seat and disc designed to resist wear and extend service life. Its valve geometry prevents damage to the sealing surface caused by dirt and debris, making it suitable for medium- and high-pressure applications. An electric actuation option is available, and the valve meets ASME Section I Code requirements for blowoff valves.

The valve is constructed from carbon steel and is available in 1.5", 2", and 2.5" sizes with ANSI Class 600 and 1500 ratings. The maximum pressure rating (Max P) is 2,455 psi.



Unit Tandem

The Unit Tandem model combines two blowoff valves in a single body, providing a compact solution that complies with ASME Section I Code requirements for two blowoff valves installed in series.

Constructed from carbon steel, it is available in 1", 1.5", 2", and 2.5" sizes with ANSI Class 300, 600, 1500, and 2500 ratings. The maximum pressure rating (Max P) is 3,206 psi.



Source:



Emerson Product Brochure:
Blowoff and Blowdown Valves
Flier, Yarway, Control Valves



Hy-Drop

The Hy-Drop valve is an in-line repairable valve featuring a Stellite seat and disc for extended service life. Its conical disc with a micrometer dial allows for accurate and repeatable adjustment settings. The valve geometry is designed to prevent damage caused by flashing steam or cavitation, ensuring reliable performance in demanding applications. Various orifice sizes are available, and the valve can be supplied with either pneumatic or electric actuation.

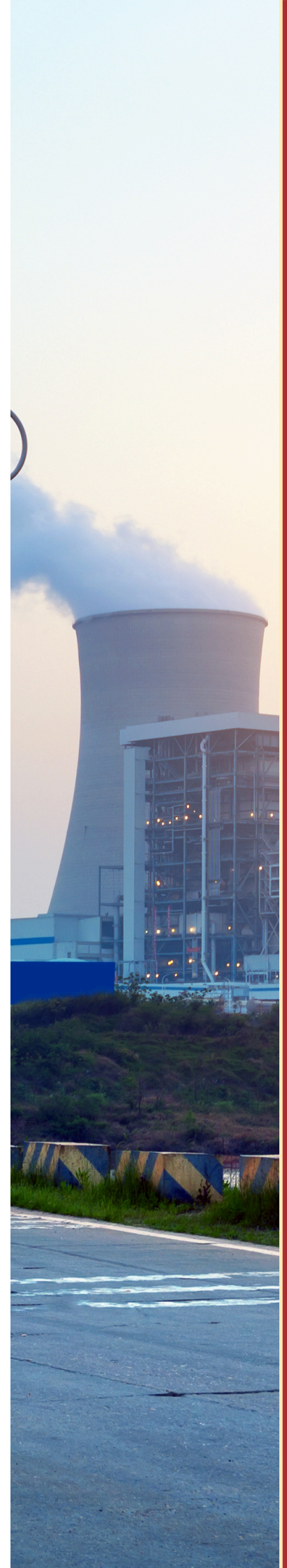
It is constructed from carbon steel or chrome moly, available in 1" and 1.5" sizes, with ANSI Class 1700 and 2700 pressure ratings. The maximum pressure rating varies depending on the selected configuration.



Hancock 5505

The Hancock 5505 is a one-piece forged-body blowdown valve with graphite packing for dependable sealing performance. Its valve geometry is engineered to prevent damage caused by flashing steam or cavitation, while the disc and seat are hard-faced with Stellite to provide excellent wear resistance and extended service life. A micrometer dial position indicator enables precise and repeatable valve settings, and various orifice sizes are available to suit different operating requirements.

The valve is constructed from carbon steel, available in 1" size with an ANSI Class 800 pressure rating.



Drip and Tracer Steam Traps

Discharge of condensate from steamline drip, steam tracing, turbinized rains and soot blowers in light to medium process applications.

Series	ANSI Ratings Pressure / Temperature	Technology	Sizes	Features & Benefits
721	600 psi / 750°F 41 bar / 400°C	Thermodynamic (Disc)	NPS 3/8, 1/2, 3/4, 1 DN 10, 15, 20, 25	In-line renewable capsules. Compact disc trap. Excellent choice for tracing and steam line drip.
29 / 29A	600 psi / 750°F 41 bar / 400°C	Thermodynamic (Disc)	NPS 3/8, 1/2, 3/4, 1 DN 10, 15, 20, 25	Simplified, integral seat disc trap with only three parts - body, disc, bonnet.
29S	300 psi / 750°F 21 bar / 400°C	Thermodynamic (Disc)	NPS 1/4 DN 8	Small, compact, integral seat disc trap with "T" strainer. Designed for tracing.
129Y	400 psi / 750°F 28 bar / 400°C	Thermodynamic (Disc)	NPS 3/8, 1/2, 3/4, 1 DN 10, 15, 20, 25	Simplified, integral seat disc trap with wye strainer. Ideal for tracing or end of line steam line drip.
741	600 psi / 750°F 41 bar / 400°C	Thermodynamic (Piston)	NPS 1/2, 3/4, 1 DN 15, 20, 25	Compact, variable orifice trap, operable over a broad pressure range. Renewable in-line, with four capacity internals.
761	600 psi / 750°F 41 bar / 400°C	Thermostatic (FTE)*	NPS 3/8, 1/2, 3/4, 1 DN 10, 15, 20, 25	Cyclic actuation provides efficient and easy to check operation. Renewable in-line, fail open.
PB	600 psi / 750°F 41 bar / 400°C	Thermostatic (FTE)*	NPS 1/2, 3/4 DN 15, 20	Cyclic actuation for ease of checking, fail open design. Low cost for end of line drip or tracing service.
B302 / B303	580 psi / 572°F 40 bar / 300°C	Thermostatic (Bimetallic)	NPS 1/2, 3/4, 1, 1 1/2, 2 DN 15, 20, 25, 40, 50	Energy-efficient steam traps for Drip & Tracing applications.

*FTE = Filled Thermal Element

721 Series



Type 29



129Y Series



741 Series



761 Series



PB Series



Type B302



Type B303



Process Steam Traps

Discharge of condensate from shell and tube heat exchangers, tank coils, air heaters, platens, preheat coils and paper machines.

Series	ANSI Ratings Pressure / Temperature	Technology	Sizes	Features & Benefits
40D	600 psi / 750°F 41 bar / 400°C	Thermodynamic (Lever)	NPS 1/2, 3/4, 1 DN 15, 20, 25	Fast response, lever trap for condensate loads to 80,000 lb/hr.
40	600 psi / 750°F 41 bar / 400°C		NPS 1 1/2, 2, 3 DN 40, 50, 80	
151	300 psi / 750°F 21 bar / 400°C	Thermostatic (FTE)*	NPS 3/4, 1 DN 20, 25	Dual-range thermostatic trap with integral FTE pilot valve for fast response. Designed to fail open.
AV5	600 psi / 650°F 41 bar / 340°C	Thermostatic Air Vent	NPS 1/2, 3/4 DN 15, 20	Designed to vent air from steam systems and improve warm- up and heat transfer rate. Cyclic FTE action helps provide positive closure. All stainless steel with integral screen.
FIT100	465 psi / 850°F 32 bar / 454°C	Mechanical (Float and Thermostatic - Levered)	NPS 1/2, 3/4, 1 DN 15, 20, 25	An excellent choice in process applications due to their adaptability to changes in process conditions and ability to remove air for optimal heat transfer.
FIT200	465 psi / 800°F 32 bar / 425°C		NPS 1, 1 1/2, 2 DN 25, 40, 50	
FXT300	250 psi / 450°F 17.2 bar / 232°C	Mechanical (Float and Thermostatic - Leverless)	NPS 1/2, 3/4, 1, 1 1/2, 2	Float is free of levers, linkages or other mechanical connections. Condensate is discharged continuously.
FXT700	650 psi / 750°F 44.8 bar / 400°C		DN 15, 20, 25, 40, 50	

*FTE = Filled Thermal Element

Source:



Emerson Robust Steam Trap
Portfolio for Drip, Tracing and
Process Applications

High Pressure Steam Traps

Discharge of condensate from steamlined rips, turbined rains,soot blowers and high pressure process.

Series	ANSI Ratings Pressure / Temperature	Technology	Sizes	Features & Benefits
460 / 515	1500 psi / 1000°F 103 bar / 538°C	Thermodynamic (Piston)	NPS 1/2, 3/4, 1 DN 15, 20, 25	Designed for high pressure with several capacity ratings available. The lowest capacity ratings are normally recommended for "drip" service. Higher capacity ratings for heavier loads. Designed to failopen. Full size integral strainer. Renewable factory assembled and preset quick change trim. Traps available with 1/2 in. socketweld blow-off connection for integral strainer.
460D3 / 515D3	1500 psi / 900°F 103 bar / 482°C	Thermodynamic (Disc)	NPS 1/2, 3/4, 1 DN 15, 20, 25	
C250 / C260	1500 psi / 1000°F 103 bar / 538°C	Thermodynamic (Piston)	NPS 1, 1 1/2, 2 DN 25, 40, 50	
C500	2500 psi / 1000°F 172 bar / 538°C	Thermodynamic (Piston)	NPS 1/2, 3/4, 1 DN 15, 20, 25	
C546	4500 psi / 1000°F 310 bar / 538°C	Thermodynamic (Piston)	NPS 1 DN 25	
B318 / B320	1595 psi / 977°F 110 bar / 525°C	Thermostatic (Bimetallic)	NPS 1/2, 3/4, 1 DN 15, 20, 25	Energy-efficient traps for saturated and superheated steam applications.

Type 40D



Type 151-A



Type 151-IH



Type AV5



FXT Series



FIT200 Series



Type 515



Type 515-D3



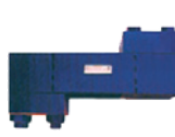
Type C250



Type C500



Type C546



Type B318



Universal Steam Traps

Series	ANSI Ratings Pressure / Temperature	Technology	Features & Benefits
UB300	693 psi / 752°F 47 bar / 400°C	Thermostatic (Bimetallic)	Stainless steel Bimetallic steam trap for drip and tracing applications. Used with Yarway Universal Connectors.
UF800	693 psi / 752°F 47 bar / 400°C	Float & Thermostatic	Stainless steel Float & Thermostatic steam trap suitable for various process equipment. Used with Yarway Universal Connectors.
721-UC	600 psi / 750°F 41 bar / 400°C	Thermodynamic (Disc)	The working portion of the trap is contained in easily installed stainless steel capsules. Changing the capsule only takes a couple minutes and results in a brand new steam trap while the body and adaptor remain in-line as a permanent holder. Rather than replacing the entire trap next time, only the capsule needs changed, saving time and expense.
741-UC		Thermodynamic (Piston)	
761-UC		Thermostatic (FTE)	

Yarway™
Universal Connector



Type UB300 with
Universal Connector



Type UF800 with
Universal Connector



721-UC Series

