

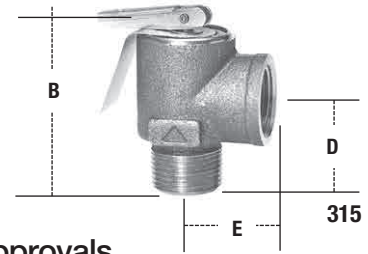
Safety Relief Valves

Series 315-M1, 415-M1 Steam Safety Valves

ASME rated steam safety relief valves up to 643 lbs./hr. (292 kg./hr). Also available with lower settings, such as 8 lbs. (3.6 kg.) for pressure cooker and steam cleaning requirements, which are not ASME rated. Consult factory for rating and quotation.

Dimensions — Weights

MODEL	SIZE (DN)		ASME STEAM DISCHARGE CAPACITY		DIMENSIONS						WEIGHT	
	in.	mm	lbs./hr. @ 15psi	kg./hr. @ 1 bar	B		D		E		lbs.	kgs.
315-M1	3/4 x 3/4	20 x 20	375	170	2 1/16	68	1 3/8	35	1 1/4	32	.55	.24
415-M1	3/4 x 3/4	20 x 20	450	204	2 9/16	71	1 5/16	33	1 1/4	32	.70	.31
415-M1	1 x 1	25 x 25	643	292	3 1/8	78	1 11/16	43	1 5/8	41	.91	.41
415	1 1/4 x 1 1/2	32 x 40	1230	574	4 3/4	121	2 3/8	60	2 1/8	54	2.00	.91
415	1 1/2 x 2	40 x 50	1860	844	5 7/16	138	2 5/8	67	2 3/16	59	3.00	1.36



Approvals



Rated in accordance with ASME Section IV and the requirements of the national board. ANSI Z21.22 "Relief Valves and Automatic Gas Shutoff Devices", CSA Listed. Meets Military Spec. MIL-V-136-12D, Type I.

For additional information, reference literature ES-315 and ES-415.

Automatic Air Vent Valves

Used on boiler piping to automatically and continuously vent air from the system water and prevent air collecting in system piping.

Series FV-4M1 Automatic Air Vent-Valve

Sizes: 1/8" - 1" (3 - 25mm) NPTF

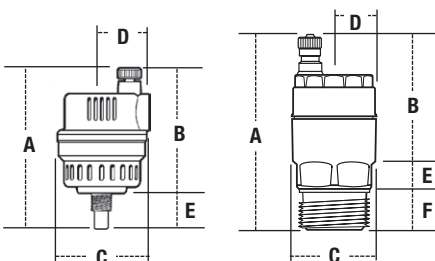
Provides automatic air venting for hot or cold water distribution systems. Purges air that may be in the water system and utilizes a float to actuate the valve plug which is located at the top of the valve. Once the air is displaced and the system pressure is sustained, the valve plug seals and prevents any water from escaping the system.

The float vent also operates as an anti-vacuum device since it will permit air to enter the system when it must be drained.

Pressure – Temperature

Minimum Working Pressure: 1.45psi (10 kPa)
Maximum Working Pressure: 150psi (10.3 bar)
Maximum Working Temperature: 240°F (116°C)

For additional information, reference literature ES-FV4-M1.



1/8" - 1/4"



1/2" - 1"

Dimensions — Weights

SIZE (DN)		DIMENSIONS										WEIGHT			
in.	mm	A		B		C		D		E		F		lbs.	kgs.
1/8	3	2 15/16	75	2 5/8	67	1 5/8	41	1 3/16	21	5/16	7.9	5/16	7.9	.40	.18
1/4	8	3 1/8	79	2 5/8	67	1 5/8	41	1 3/16	21	1/8	3.1	1/2	12.7	.43	.20
1/2	15	3 5/16	85	2 11/16	69	1 1/4	32	1 1/16	18	5/8	16	—	—	.44	.20
3/4	20	3 3/8	85	2 11/16	69	1 1/4	32	1 1/16	18	5/8	16	—	—	.45	.20
1	25	3 1/2	89	2 11/16	69	1 3/8	35	1 1/16	18	13/16	20	—	—	.47	.21