

Safety Relief Valves

The safety relief valve is mounted directly to the boiler to prevent excess pressure buildup in the boiler. The capacity of the relief valve must be greater than the BTU input of the boiler.

Series LF174A / 174A / 374A / 740 ASME Water Pressure Relief Valves

Sizes: 3/4" – 2" (20 – 50mm)

Boiler safety relief valves for pressure protection only of all types of hot water heating boiler equipment. Female inlet and outlet connections. Meets Military spec. MIL-V-136-12D, Type III.

Features

- Seat located above drain; water can't be trapped and sediment can't foul seat
- Non-mechanical seat-to-disc alignment
- Water seal of high-temperature resisting material isolates spring working parts from water during relief

LEAD FREE Series LF174A features Lead Free* cast copper silicon alloy body construction and complies with Lead Free* installation requirements. Pressure range 60 to 150 psi (4-10 bar) with corresponding high ratings from 1,100,000 to 14,370,000 BTU/hr.

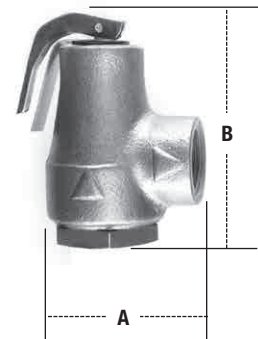
Series 174A features a bronze body for use in non-potable applications. Pressure range 30 to 150 psi (2-10 bar) with corresponding high ratings from 650,000 to 14,370,000 BTU/hr.

Series 374A features an iron body with forged bronze inlet for use in non-potable applications. Pressure range 30 to 150 psi (2-10 bar) with corresponding high ratings from 550,000 BTU/hr.

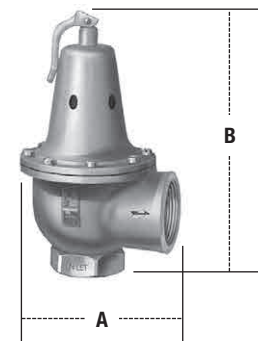
Series 740 safety relief valves with expanded outlets for hot water space heating boilers. Features iron body construction. Pressure range 30-75psi (207 – 517 kPa) with corresponding high ratings from 925,000 – 10,700,000 BTU/Hr., a wide range of relief capacities. Has a lower BUT per thousand cost because the Series 740 provides a high BTU rating, size-or-size than other valves on the market. Female inlet and outlet connections.



174A



374A



740

Dimensions – Weights

MODEL	SIZE (DN)		DIMENSIONS				WEIGHT	
	in.	mm	A		B		lbs.	kgs.
LF174A/174A	3/4 x 3/4	20 x 20	2 1/2	64	5 1/2	130	2	.9
LF174A/174A	1 x 1	25 x 25	3	76	5 3/4	146	3	1.4
LF174A/174A	1 1/4 x 1 1/4	32 x 32	4 3/4	121	8 3/8	213	6	2.7
LF174A/174A	1 1/2 x 1 1/2	40 x 40	4 7/8	124	9	229	7	3.2
LF174A/174A	2 x 2	50 x 50	6 1/4	159	11 1/2	295	14	6.4
374A	3/4 x 3/4	20 x 20	2 1/2	64	3 3/8	92	1	.5
740	3/4 x 1	20 x 25	3	76	5 5/8	143	2	.9
740	1 x 1 1/4	25 x 32	3 1/2	89	7 1/4	184	3	1.4
740	1 1/4 x 1 1/2	32 x 40	4 5/8	117	8 3/4	222	6	2.7
740	1 1/2 x 2	40 x 50	5 1/4	133	9 1/4	235	8	3.6
740	2 x 2 1/2	50 x 65	6 3/4	171	11 5/8	295	17	7.7

Settings and Relieving Capacities

BTU Steam Discharge Capacities

MODEL	SIZE (DN)		30PSI	100PSI	125PSI	150PSI
	in.	mm				
374A	3/4	20	550,000	–	–	–
LF174A / 174A	3/4	20	650,000	1,695,000	2,070,000	2,445,000
LF174A / 174A	1	25	1,005,000	2,635,000	3,215,000	3,795,000
LF174A / 174A	1 1/4	32	1,682,000	4,399,000	5,370,000	6,340,000
LF174A / 174A	1 1/2	40	2,020,000	5,290,000	6,460,000	7,630,000
LF174A / 174A	2	50	3,815,000	9,970,000	12,170,000	14,370,000

MODEL	SIZE (DN)		30PSI	45PSI	50PSI	75PSI
	in.	mm				
740	3/4 x 1	20 x 25	925,000	1,245,000	1,352,000	1,886,000
740	1 x 1 1/4	25 x 32	1,300,000	1,750,000	1,899,000	2,649,000
740	1 1/4 x 1 1/2	32 x 40	2,105,000	2,830,000	3,075,000	4,285,000
740	1 1/2 x 2	40 x 50	2,900,000	3,903,000	4,237,000	5,909,000
740	2 x 2 1/2	50 x 65	5,250,000	7,067,000	7,672,000	10,700,000

Note: Valve settings, other than shown above, are available in 5psi (34.5 kPa) increments within the pressure ranges shown.

Approvals



Rated in accordance with ASME Section IV and the requirements of the national board.

For additional information, reference literature ES-LF174A or ES-174A-740.

*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.