

Series LF174A

ASME Water Pressure Relief Valve

Size: DN20 – DN50

Lead Free cast copper silicon alloy body safety relief valves for pressure protection only of all types of hot water heating boiler equipment.

Pressure range 50 to 150psi (3 - 10 bar) with corresponding high ratings from 950,000 to 14,370,000 BTU/hr. Female inlet and outlet connections.

The LF174A features Lead Free* construction to comply with Lead Free* installation requirements.



Features

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

Pressure-Temperature

- Standard Set Pressure Range: 30 – 150 psi
- Temperature Range: 0.5 °C ~121 °C

Material

Component	Material
Body	Cast Copper Silicon Alloy
Spring	Stainless Steel
Disc	Non-metallic
Seat	Metal

Installation Dimensions

Model	Size	Model	Length		Height		Weight	
			in.	mm	in.	mm	lbs.	kg.
LF174A	3/4 x 3/4	M3	4 1/2	116	2 3/4	67	1.2	0.5
LF174A	1 x 1	M1	5 3/4	144	3	76	1.9	0.9
LF174A	1 1/4 x 1 1/4	M1	8 1/2	213	4 1/4	109	4.6	2.1
LF174A	1 1/2 x 1 1/2	M	9 1/4	232	4 3/4	122	6.9	3.1
LF174A	2 x 2	M	11 1/2	290	6 1/2	162	14.4	6.6

Specification

- Design Standard: MIL-V-18634B, Type I
- Connection Standard: ASME B1.20.3
- Test Standard: NSF 372, ASME section IV
- Note: For installation, maintenance, operation, and inspection guides, please refer to specification sheet on Watts website: www.watts.com

Approvals



Characteristic Chart

BTU/hr Steam Pressure Discharge Capacities
As tested and rated by the National Board of Boiler and Pressure Vessel Inspectors

Set	Series 174A					
	3/4" x 3/4"	1" x 1"	1 1/4" x 1 1/4"	1 1/2" x 1 1/2"	2" x 2"	
50	3.45	950,000	1,470,000	2,459,000	2,950,000	5,575,000
55	3.79	1,025,000	1,590,000	2,653,000	3,190,000	6,010,000
60	4.13	1,100,000	1,702,000	2,847,000	3,425,000	6,450,000
65	4.58	1,170,000	1,820,000	3,041,000	3,660,000	6,890,000
70	4.82	1,245,000	1,935,000	3,325,000	3,890,000	7,330,000
75	5.17	1,320,000	2,055,000	3,429,000	4,125,000	7,770,000
80	5.51	1,400,000	2,166,000	3,605,000	4,360,000	8,215,000
85	5.86	1,470,000	2,285,000	3,817,000	4,590,000	8,650,000
90	6.6	1,545,000	2,400,000	4,011,000	4,825,000	9,090,000
95	6.55	1,620,000	2,520,000	4,205,000	5,060,000	9,530,000
100	6.89	1,695,000	2,635,000	4,399,000	5,290,000	9,970,000
105	7.23	1,770,000	2,750,000	4,593,000	5,525,000	10,410,000
110	7.58	1,845,000	2,865,000	4,787,000	5,760,000	10,850,000
115	7.92	1,920,000	2,980,000	4,981,000	5,990,000	11,290,000
120	8.27	1,995,000	3,100,000	5,175,000	6,225,000	11,730,000
125	8.61	2,070,000	3,215,000	5,370,000	6,460,000	12,170,000
130	8.96	2,145,000	3,330,000	5,564,000	6,690,000	12,610,000
135	9.3	2,220,000	3,445,000	5,758,000	6,925,000	13,050,000
140	9.65	2,295,000	3,565,000	5,952,000	7,160,000	13,490,000
145	9.99	2,370,000	3,680,000	6,146,000	7,390,000	13,930,000
150	10.34	2,445,000	3,795,000	6,340,000	7,630,000	14,370,000