AutoFill™ pre-adjustable automatic combination fill valve and testable RPZ backflow preventer

574 series, ¾ & 1 inch

Submittal Data 03503 NA — Issue Date 04/2021

Application

The backflow preventer can be used in all systems where there is danger of the potable water supply system being contaminated. It prevents an accidental reduction in the pressure in the distribution system from causing backflow from contaminated water in user installations.

The valve is ICC-ES certified to ASSE 1013, CSA B64.4 and NSF 372 low lead laws. It meets codes IPC, IRC, UPC and NPC for use in accordance with the US and Canadian plumbing codes.

Typical Specification

Furnish and install on the plans and described herein, a code 574 series, pre-adjustable automatic combination fill valve and testable, reduced pressure zone backflow preventer as manufactured by Caleffi in size ¾" & 1" with NPT female, NPT male and press union connections. Each valve must be designed with a compensated seat and self-contained cartridge. The filling valve design must have a brass body and internal moving parts and include a glass fiber reinforced nylon PA66G30 cover, stainless steel filter with 0.51 mm mesh size (35 mesh), NBR diaphragm and seals. The filling valve must be come complete with adjustment knob with downstream presure regulating indicator showing increasing or decreasing pressure direction for manual setting, pressure gauge with 2 inch dial, scale 0-100 psi (0-7 bar), connection 1/8" NPT male. The backflow preventer shall be designed with DZR low lead brass body and cover, stainless steel springs and peroxide-cured EPDM diaphragms and seals. The backflow preventer is provided with bronze inlet and outlet t-handle operated ball valves with 304 stainless steel ball. Each backflow preventer assembly shall be ICC-ES certifed to ASSE 1013, CSA B64.4 and NSF/ANSI 372 low lead laws. It meets codes IPC, IRC , UPC and NPC for use in accordance with the US and Canadian plumbing codes. It must be designed for 150 psi (10 bar) maximum working pressure and 150°F (65°C) maximum working temperature. (See product instructions for specific installation information.)

Technical Data

Filling valve

Body and internal moving parts:	brass
Cover:	glass fiber reinforced nylon PA66G30
Control spindle:	stainless steel
Diaphragm and seals:	NBR
Filter:	stainless steel

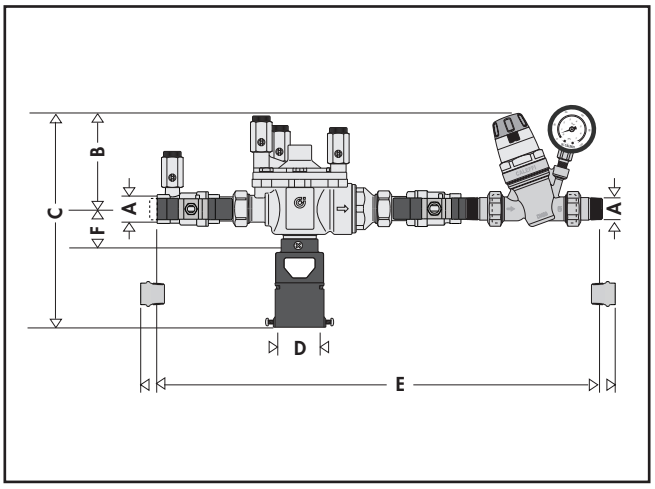
Backflow preventer

Body:	DZR low lead brass, EN 1982 CB752S
Cover:	DZR low lead brass, EN 12165 CW724R
Check valves:	PSU-POM
Springs:	stainless steel
Diaphragms and seals:	peroxide-cured EPDM

Isolation ball valves, inlet and outlet

Body material:	C89833 low-lead bronze
Ball:	304 stainless steel
Handle and nut:	steel
Gland nut:	brass
Stem:	low lead brass

Dimensions



Code	A	B	C	D	E	F	Wt (lb)
574151A	¾" FNPT x MNPT	4 7/16"	10 11/16"	40-60mm	18 3/8"	1¾"	9.4
574156A	¾" press	4 7/16"	10 11/16"	40-60mm	19 1/8"	1¾"	9.4
574157A	¾" press x MNPT	4 7/16"	10 11/16"	40-60mm	18¾"	1¾"	9.4
574161A	1" FNPT x MNPT	4 7/16"	10 11/16"	40-60mm	18¾"	1¾"	9.5
574166A	1" press	4 7/16"	10 11/16"	40-60mm	19¼"	1¾"	9.5
574167A	1" press x MNPT	4 7/16"	10 11/16"	40-60mm	19 3/16"	1¾"	9.5

Lay length: 574156A 17-5/8"; 574157A 18", 574166A 18½"; 574167A 18-13/16".

Certifications-Backflow preventer

1. ICC-ES certified to ASSE 1013, CSA B64.4 and NSF/ANSI 372.

2. NSF/ANSI 372-2011, Drinking Water System Components-Lead Content Reduction of Lead in Drinking Water Act, California Health and Safety Code 116875 S.3874, Reduction in Drinking Water Act, certified by ICC-ES, file PMG-1360.

Performance of combined unit

Suitable fluids:	water
Max. working pressure:	150 psi (10 bar)
Max. working temperature:	150°F (65°C)
Pressure test ports:	upstream, intermediate, downstream
Downstream pressure setting range:	6 - 90 psi (0.5–6 bar)
Factory setting:	15 psi (1.035 bar)
Max. flow rate:	size 3/4": 24 gpm at 20 psid pressure drop size 1": 39 gpm at 20 psid pressure drop
Pressure gauge scale:	0-100 psi (0-7 bar)
Filter mesh size:	0.51 mm (35 mesh)
Environmental:	indoor only
Connections:	see table above

Job name _____ Size _____

Job location _____ Quantity _____

Engineer _____ Approval _____

Mechanical contractor _____ Service _____

Contractor's P.O. No. _____ Tag No. _____

Representative _____ Notes _____

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