

Dual check valve with atmospheric port (DCAP)

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573 series

Function

The dual check valve with atmospheric port is designed to protect potable water systems in low hazard installation from the ingress of contaminated fluids caused by back pressure or back siphonage.

The Caleffi 573 series has been specifically certified to standard AS/NZS 2845.1.



Product range

573

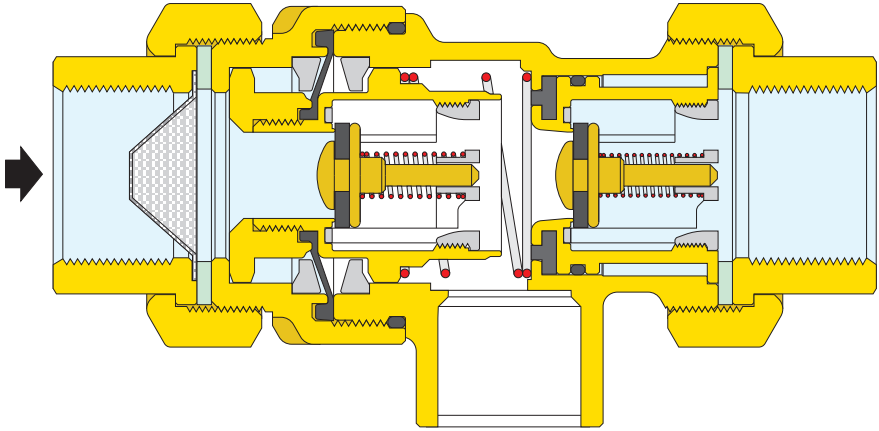


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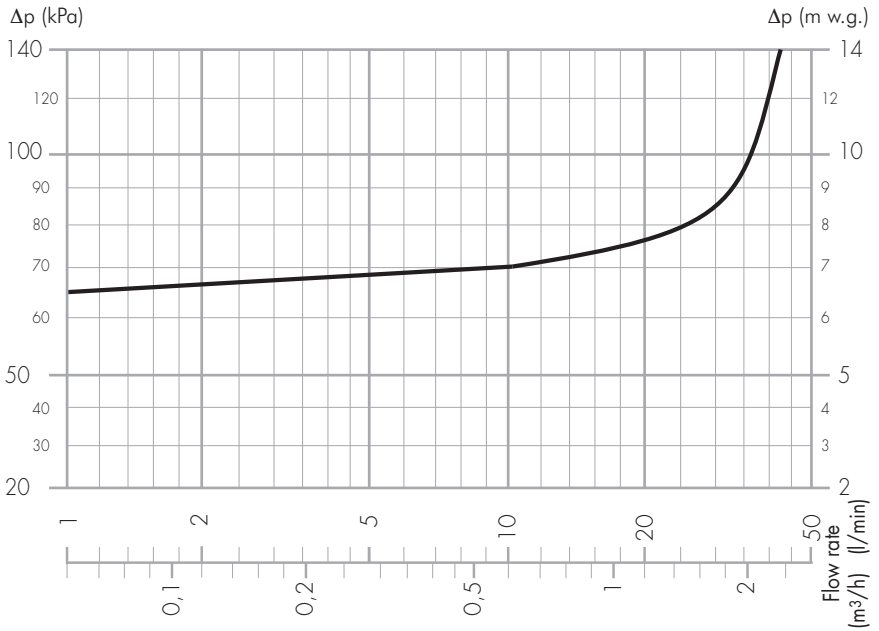
dual check valve with atmospheric port
3/4" F threaded connection with unions

Technical specifications

Materials:	Body brass 12165 CW617N
Parts in contact with water	CR dezincification resistant alloy EN 12165 CW602N PSU
Check valve:	CR dezincification resistant alloy EN 12164 CW602N EPDM
Check valve stem:	EPDM
Diaphragm:	EPDM
Seals:	stainless steel
Strainer:	
Maximum working pressure:	1200 kPa
Maximum working temperature:	65°C
Medium:	water
Certified to:	AS/NZS 2845.1
Connections:	3/4" female with unions



Flow rate graph



Installation

The Caleffi 573 series DCAP must be installed in accordance with AS 2845.3 and the diagrams contained in this instruction manual, taking into account all the applicable Codes and Regulations.

Before installing a Caleffi 573 series DCAP, the system must be thoroughly flushed to remove impurities or any debris which may have accumulated during installation.

Failure to remove dirt or debris may affect performance and void the manufacturer's warranty.

The Caleffi 573 series DCAP must be installed horizontally, considering the direction of flow indicated by the arrow on the valve body. Vertical installations are not recommended.

The Caleffi 573 series DCAP must be installed with one isolating valve and a line strainer upstream and one isolating valve downstream.

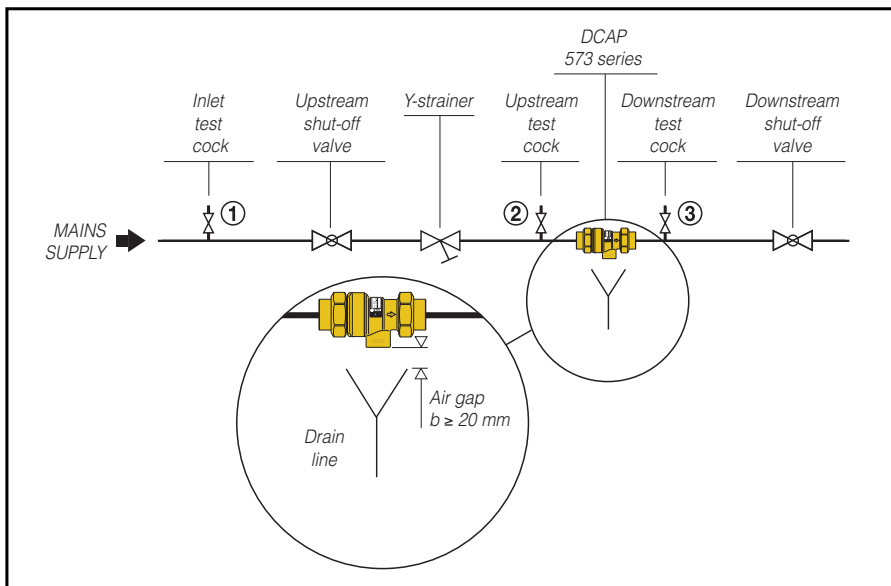
The Caleffi 573 series DCAP must be installed in an accessible location to facilitate inspection, testing and servicing.

The Caleffi 573 series DCAP must be installed with the vent port to a discharge line, in accordance with applicable regulations, keeping an air gap minimum 20 mm.

Do not install where the discharge can cause damage.

If field testing is required by code, it must be installed in accordance with the relevant diagram in this instruction manual.

Installation diagram



Field testing procedure

1) Check operation of the discharge. When inlet water pressure drops to atmospheric, the valve must open the vent port and discharge the water contained in the valve body.

a. - close shut-off valves upstream and downstream.

b. - open the upstream test cock

The water contained in the body must be discharged, indicating that the diaphragm has opened the vent port.

2) Check the tightness of the internal second check valve. When backpressure is applied to the downstream side of the valve, the internal second check valve must close back drip tight on its seat.

a. - close shut-off valve upstream and downstream.

b. - open the upstream test cock

c. - install a removable bypass hose connecting inlet test cock to downstream test cock and open them for admitting pressure to the downstream side of the internal second check valve. Water must not drip from the vent port, indicating that the second check valve is not leaking.

Service

DCAP backflow preventers are not repairable. In the case of failure, valves must be replaced.



Safety

- The Caleffi 573 series backflow preventer must be installed by plumbers in accordance with the instructions given in this manual and following current regulations.
- If the backflow preventer is not installed, put into operation and serviced correctly in accordance with the instructions in this manual, then it might not operate correctly and may endanger users.
- Make sure that all connection pipes are watertight. When making plumbing connections, take care not to put too much mechanical stress on the DCAP valve's fittings. Over time this could cause bursting with hydraulic leakage damaging property and/or persons.
- In the case of particularly hard water, water treatment devices must be provided upstream of the DCAP valve's inlet, according to current regulations.
- Any use other than the intended use is prohibited.

Leave this manual for the user

AUSTRALIAN AGENT
ALL VALVE INDUSTRIES Pty Ltd
30/205 Port Hacking Road
Miranda NSW 2228
Tel. (02) 8543.5111
Fax. (02) 8543.5122
Email: info@allvalve.com.au



CALEFFI S.P.A. · 28010 FONTANETO D'AGOGNA (NO) · ITALY · S.R. 229, N.25
Tel. +39 0322 8491 R.A. · Fax +39 0322 863723 · www.caleffi.com · info@caleffi.it