

# dzr single check valves

BI & ALT-SCV



**altecnic**  
CALEFFI group

# dZR single check valves



## Application

The Altecnic range of single check valves are used to help prevent the risk of backflow and back siphonage contamination in domestic dwellings, public and commercial buildings.

Many water outlets such as thermostatic shower valves, thermostatic taps or outlets supplied via a thermostatic mixing valve incorporate a single check valve in the connection tails. By installing an additional single check valve in the same supply pipe a non-verifiable double check valve is created, which will prevent backflow and contamination of the water supply.

The valves can also be used with showers and taps which do not have a check valve in their supply connection to prevent backflow.

The internal check valve cartridge enables the valves to be installed in horizontal or vertical pipework, with the flow in the upwards direction.

The spring assistance gives rapid closure, preventing flow reversal and hydraulic shock.

## Design

Altecnic single check valves comply with BS EN 13959 'Anti- pollution check valves' family E, type B - non controllable.

Altecnic non verifiable single check valves are manufactured from DZR copper alloy and the 15 to 28mm sizes have a nickel plated finish, to enhance the appearance for exposed installations.

The valves provide category 2 protection for both backflow and back siphonage as specified in the Water Supply (Water Fittings) Regulations 1999.

The valves are designed for high flow rates with minimum pressure drops.

Supplied with compression ends complying with BS EN 1252-2 for use with R250 (half hard) copper tube or female threaded connections to BS EN 10226.

## Construction Details

Component	Material	Grade
Body	DZR copper alloy	BS EN 12420 CW602N
Cartridge	Polymer	
Cartridge Retaining Clip	Stainless steel	AISI 304
'O' ring	NBR rubber	
	EPDM	
Compression Nut	Brass	BS EN 12164 CW614N
Olive	Brass	

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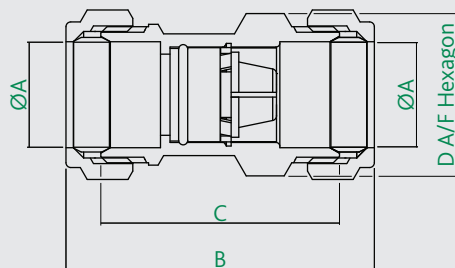
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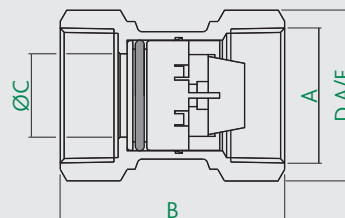
ALTECNIC™

## Dimensions - Compression Ends



Product Code	ØA	B	C	D A/F	kg
BI-100034	15	61	45.5	22	0.10
BI-100S22	22	65	50	31.5	0.18
BI-100S28	28	72	56.5	39	0.29

## Dimensions - Threaded Connections



Product Code	A	B	C	D A/F	kg
ALT-SCV015	Rc1½	42	12.5	24	0.063
ALT-SCV020	Rc¾	50	17	32	0.128
ALT-SCV025	Rc1	60	22	38	0.171
ALT-SCV032	Rc1¼	79	24	46	0.331
ALT-SCV040	Rc1½	84	30	53	0.532
ALT-SCV050	Rc2	101	38	64	0.850

## Technical Data

Max inlet pressure:	10 bar
Min inlet pressure:	0.1 bar
Max continuous temperature:	85°C
Conforms to:	BS EN 13959
WRAS approved product	

## Installation

The valves are very simple to install with just two joints to make.

The flow through the valves must follow the direction arrow on the valve body.

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