

## MINI DUAL CHECK VALVES

### LOW HAZARD RATING



#### PRODUCT CODES

<b>7185</b>	15mm Mini Dual Check Valve M x M
<b>7185.2</b>	15mm Mini Dual Check Valve Chrome M x M
<b>7186</b>	15mm Mini Dual Check Valve M x F
<b>7186.2</b>	15mm Mini Dual Check Valve Chrome M x F
<b>7179</b>	20mm Dual Check Valve M x F to suit 1/2" hose taps
<b>7179.2</b>	20mm Dual Check Valve M x F to suit 1/2" hose taps Chrome

#### DESCRIPTION

The Ryemetal Mini Dual Check Valves are designed to prevent cross connections of non potable water into safe drinking water systems. It is a compact and economical device that is easy to install both horizontally and vertically. The device comprises two independently acting, internally loaded check valves in series.

#### SPECIFICATION STATEMENT

*Ryemetal Mini Dual Check Valves shall be installed to AS 3500-1. The backflow prevention device shall be manufactured to AS 2845-1. The dual check valve shall consist of two independent internally loaded checks and be suitable for vertical or horizontal installation in low hazard applications.*

#### OPERATION

Each of the two spring loaded check valves remains tightly closed until there is a demand for water down stream. If the back pressure increases above the supply pressure, there is a reverse direction of flow, the check valves close and backflow is prevented. If the second check valve is prevented from closing tightly, the first check valve will still provide protection against backflow but there is no visible flow.

#### FEATURES

- Protects against back pressure and backsiphonage
- Suitable for low hazard applications
- Compact and lightweight
- Corrosion resistant
- Independently operating check valves
- Maximum working pressure of 1200 kPa
- Operating temperature range of 1°C to 60°C
- Suitable for vertical and horizontal installations
- Choice of brass or chrome plated finish
- Approved to AS 2845-1

#### APPLICATION

The Ryemetal Mini Dual Check Valves provide protection to the potable water supply from contamination in low hazard applications such as water filters and laboratory sinks.

## MINI DUAL CHECK VALVES

### MATERIALS

Body and covers DR Brass

Springs Stainless steel

### TECHNICAL DATA

**7185** Inlet Male BSP  
Outlet Male BSP

**7186** Inlet Female BSP  
Outlet Male BSP

**7179** Inlet Female BSP  
Outlet Male BSP

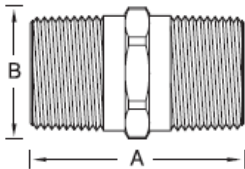
Minimum working pressure 220 kPa

Maximum working pressure 1200 kPa

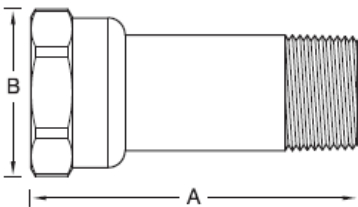
Maximum temperature 60°C

### DIMENSIONS AND FLOW RATES

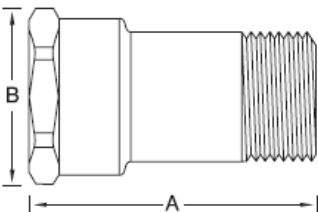
#### 7185



#### 7186



#### 7179



VALVE	7185	7186	7179
A. Length	41mm	56mm	59mm
B. Height	22mm	25mm	32mm
Rated Flow	0.15l/s	0.15l/s	0.32l/s
Max. Pressure Loss	50kPa	50kPa	50kPa

\* Dimensions may be changed without notice

## DUAL CHECK VALVES

### LOW HAZARD RATING



#### PRODUCT CODES

<b>7181</b>	20mm Dual Check Valve F x F
<b>7182</b>	25mm Dual Check Valve F x F
<b>7171</b>	20mm Dual Check Valve M x F
<b>7172</b>	25mm Dual Check Valve M x F

#### DESCRIPTION

The Ryemetal Dual Check Valves are designed to prevent cross connection of non potable water into safe drinking water systems. They are compact and economical devices that are easy to install both horizontally and vertically. Each device comprises two independently acting, internally loaded check valves in series.

#### SPECIFICATION STATEMENT

*Ryemetal shall be installed to AS 3500-1. The backflow prevention device shall be manufactured to AS 2845-1. The dual check valve shall consist of two independent internally loaded checks and be suitable for vertical or horizontal installation in low hazard applications.*

#### OPERATION

Each of the two spring loaded check valves remains tightly closed until there is a demand for water downstream. If the back pressure increases above the supply pressure, there is a reverse direction of flow, the check valves close and backflow is prevented. If the second check valve is prevented from closing tightly, the first check valve will still provide protection against backflow but there is no visible flow.

#### FEATURES

- Protects against back pressure and backsiphonage.
- Suitable for low hazard applications .
- Compact and lightweight.
- Corrosion resistant.
- Independently operating check valves.
- Maximum working pressure of 1200 kPa.
- Operating temperature range of 1°C to 60°C .
- Suitable for vertical and horizontal installations.
- Approved to AS 2845-1.

#### APPLICATION

The Ryemetal Dual Check Valves provide protection to the potable water supply from contamination in low hazard applications like meter connections on domestic properties.

# DUAL CHECK VALVES

## MATERIALS

Body and covers DR Brass

Springs Stainless steel

## TECHNICAL DATA

7181/7182 Inlet Female BSP  
Outlet Female BSP

7171/7172 Inlet Female BSP  
Outlet Male BSP

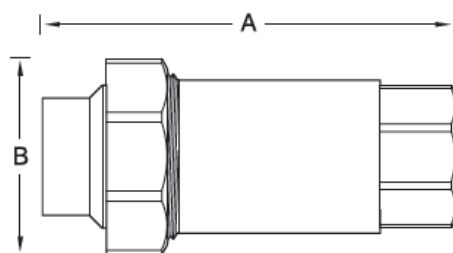
Minimum working pressure 220 kPa

Maximum working pressure 1200 kPa

Maximum temperature 60°C

## DIMENSIONS

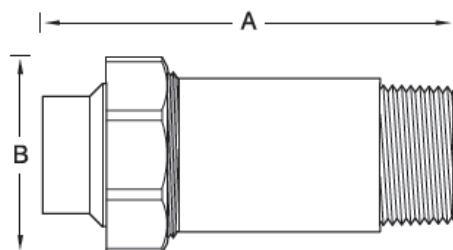
### 7181/7182



7181 / 7182	20mm	25mm
A. Length	91mm	92mm
B. Height	46mm	46mm

\* Dimensions may be changed without notice

### 7171/7172



7171 / 7172	20mm	25mm
A. Length	103mm	103mm
B. Height	59mm	59mm

\* Dimensions may be changed without notice

## HOSE CONNECTION VACUUM BREAKERS

Backflow

### LOW HAZARD RATING



#### PRODUCT CODES

7105	20mm Hose Connection Vacuum Breaker
7105.2	20mm Hose Connection Vacuum Breaker Chrome
7107	25mm Hose Connection Vacuum Breaker
7107.2	25mm Hose Connection Vacuum Breaker Chrome

#### DESCRIPTION

The Ryemetal Hose 7100 Series Connection Vacuum Breaker is designed to prevent back siphonage through a hose connected to a safe drinking water supply. It comprises a single check valve, spring loaded to the closed position with an atmospheric vacuum breaker vent.

#### SPECIFICATION STATEMENT

*Ryemetal 7100 Series shall be installed to AS 3500-1. The backflow prevention device shall be manufactured to AS 2845-1. The hose connection vacuum breaker shall be installed on hose bib taps and the set screw head shall be tightened and sheared upon installation.*

#### OPERATION

During normal flow operation, the check valve remains closed. If the pressure downstream of the device increases beyond that of the potable supply, the Hose Connection vents to atmosphere preventing back siphonage and the creation of a vacuum at the discharge line.

#### FEATURES

- Corrosion resistant.
- Choice of brass or chrome plated finish.
- Brass body.
- Suitable for hot or cold water service (up to 80° C at 1400 kPa).
- Durable.
- Maximum working pressure of 1400 kPa.
- “Breakaway” set screw protects against tampering.
- Approved to AS 2845-1.

#### APPLICATION

The Ryemetal 7100 Series Hose Connection Vacuum Breakers provide protection to the potable water supply from contamination in low hazard applications such as flexible connections over domestic fixtures and external hose taps.

## HOSE CONNECTION VACUUM BREAKERS

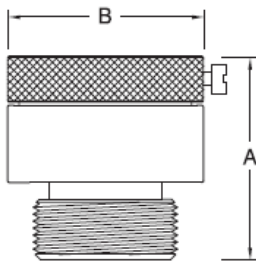
### MATERIALS

Body Brass or chrome plated brass  
Spring Stainless steel

### TECHNICAL DATA

Inlet Female BSP  
Outlet Male BSP  
Minimum working pressure 220 kPa  
Maximum working pressure 1400 kPa  
Maximum temperature 80°C

### DIMENSIONS AND WEIGHT



	20mm	25mm
7105 / 7107		
A. Length	28mm	28mm
B. Diameter	36mm	38mm

\* Dimensions may be changed without notice