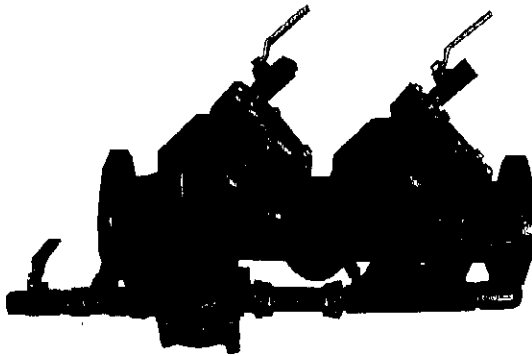


# DOUBLE DETECTOR CHECK VALVES

## 40-600 Series'

## 80mm - 100mm

### MEDIUM HAZARD RATING



#### PRODUCT CODES

40600E1	DDCV 80mm
4060AE1	DDCV 100mm

#### DESCRIPTION

The Conbraco 40-600 Series Double Detector Check Valve provides double check protection against cross connection of non potable water into a safe drinking water system. It also offers a monitoring capability to detect leakage or the unauthorised use of water from fire or sprinkler systems. The unit consists of two independently acting, spring loaded check valves and facilities for a by pass assembly into which a suitable water meter, double check valve assembly with shut off valves and test cocks can be installed.

#### SPECIFICATION STATEMENT

*Conbraco 40-600 Series shall be installed to AS 3500-1 and shall include resilient seated isolation valves and Y-strainer. The backflow prevention device shall be manufactured to AS 2845-1 and be annually tested to conform to AS 3500-1. The valve shall be adequately supported with approved supports and*

#### OPERATION

During normal flow conditions, if the down stream pressure of the assembly increases above the supply pressure i.e. there is a reverse direction of flow, the main line and by-pass double check valves will close to prevent backflow. If the second check valve of either the line or by-pass is prevented from closing tightly, the first check valve will still provide protection against a backflow condition. The line and by pass double check valves will remain closed during the no flow condition. If there is a low flow demand (up to a minimum of 12 litres per minute) of water downstream, which may be caused by a system leak or unauthorised use, the flow is routed through the water meter located on the by pass to monitor the consumption. Higher flow will cause the main line double check valve to open, allowing water to continue to flow through the by pass at a rate below capacity.

#### FEATURES

- Corrosion resistant.
- Designed for easy and quick in line maintenance and testing.
- Replaceable seats.
- Low head loss.
- Economical.
- Maximum working pressure of 1200 kPa.
- Operating temperature range of 1°C to 60°C.
- Approved to AS 2845-1.

#### APPLICATION

The Conbraco 40-600 Series Double Detector Check Valve provides protection to the potable water supply from medium level contamination. It also monitors unauthorised usage from fire hydrants and sprinkler systems.

# DOUBLE DETECTOR CHECK VALVES

## 40-600 Series

## 80mm - 100mm

**Backflow**

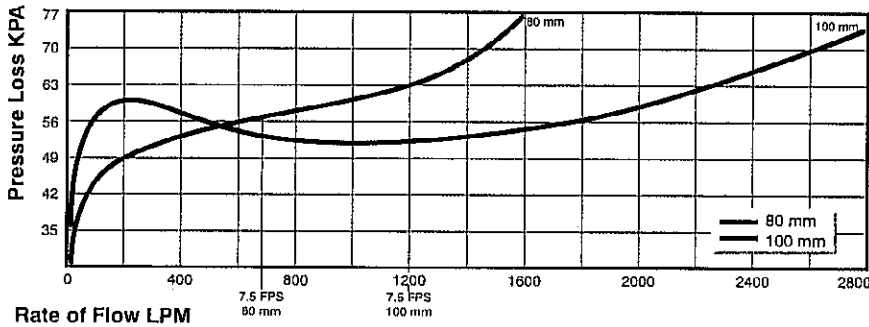
### MATERIALS

Body and covers	Ductile iron
Springs	Stainless steel
C.V. Seat Discs	EPDM
Fasteners	Stainless steel
Check Seats	Bronze
External finish	Epoxy Coat

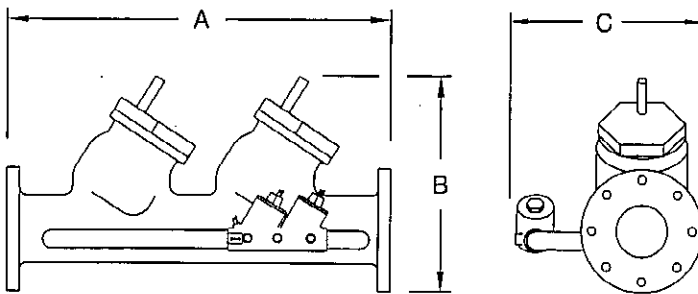
### TECHNICAL DATA

Flanged inlet and outlet	Table E
Minimum working pressure	220 kPa
Maximum working pressure	1200 kPa
Maximum temperature	60°C

### FLOW CHARTS



### DIMENSIONS AND WEIGHT



VALVE	80mm	100mm
A. Length	560mm	730mm
B. Height	655mm	703mm
Width of assembly	330mm	381mm
Weight (DCV only)	54kg	89kg

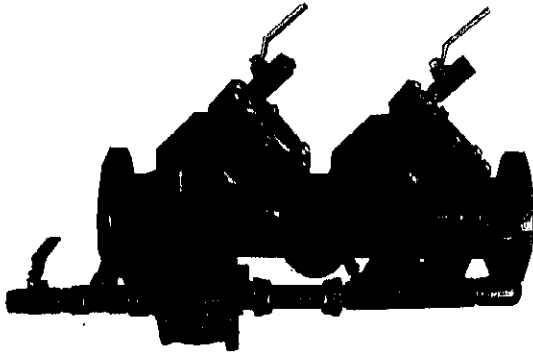
\* Dimensions may be changed without notice

# DOUBLE DETECTOR CHECK VALVES

## 40-600 Series'

## 150mm - 250mm

### MEDIUM HAZARD RATING



#### PRODUCT CODES

4060CE1	DDCV 150mm
4060EE1	DDCV 200mm
4060GE1	DDCV 250mm

#### DESCRIPTION

The Conbraco 40-600 Series Double Detector Check Valve provides double check protection against cross connection of non potable water into a safe drinking water system. It also offers a monitoring capability to detect leakage or the unauthorised use of water from fire or sprinkler systems. The unit consists of two independently acting, spring loaded check valves and facilities for a by pass assembly into which a suitable water meter, double check valve assembly with shut off valves and test cocks can be installed.

#### SPECIFICATION STATEMENT

*Conbraco 40-600 Series shall be installed to AS 3500-1 and shall include resilient seated isolation valves and Y-strainer. The backflow prevention device shall be manufactured to AS 2845-1 and be annually tested to conform to AS 3500-1. The valve shall be adequately supported with approved supports and clipping as required.*

#### OPERATION

During normal flow conditions, if the down stream pressure of the assembly increases above the supply pressure i.e. there is a reverse direction of flow, the main line and by-pass double check valves will close to prevent backflow. If the second check valve of either the line or by-pass is prevented from closing tightly, the first check valve will still provide protection against a backflow condition. The line and by pass double check valves will remain closed during the no flow condition. If there is a low flow demand (up to a minimum of 12 litres per minute) of water downstream, which may be caused by a system leak or unauthorised use, the flow is routed through the water meter located on the by pass to monitor the consumption. Higher flow will cause the main line double check valve to open, allowing water to continue to flow through the by pass at a rate below capacity.

#### FEATURES

- Corrosion resistant.
- Designed for easy and quick in line maintenance and testing.
- Replaceable seats.
- Low head loss.
- Economical.
- Maximum working pressure of 1200 kPa.
- Operating temperature range of 1°C to 60°C.
- Approved to AS 2845-1.

#### APPLICATION

The Conbraco 40-600 Series Double Detector Check Valve provides protection to the potable water supply from medium level contamination. It also monitors unauthorised usage from fire hydrants and sprinkler systems.

# DOUBLE DETECTOR CHECK VALVES

## 40-600 Series

## 150mm - 250mm

Backflow

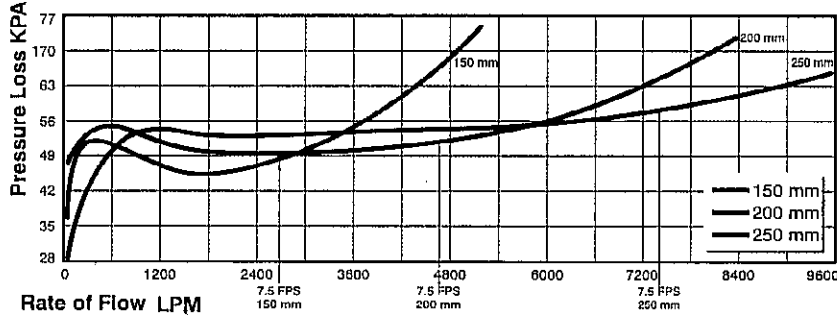
### MATERIALS

Body and covers	Ductile iron
Springs	Stainless steel
C.V. Seat Discs	EPDM
Fasteners	Stainless steel
Check Seats	Bronze
External finish	Epoxy Coat

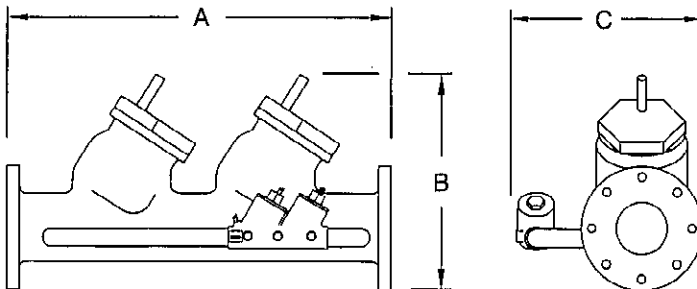
### TECHNICAL DATA

Flanged inlet and outlet	Table E
Minimum working pressure	220 kPa
Maximum working pressure	1200 kPa
Maximum temperature	60°C

### FLOW CHARTS



### DIMENSIONS AND WEIGHT



VALVE	150mm	200mm	250mm
A. Length	1067mm	1321mm	1577mm
B. Height	470mm	600mm	720mm
Width of assembly	460mm	530mm	600mm
Weight (DCV only)	187 kg	362kg	612kg

\* Dimensions may be changed without notice