

Single Check Valve

Model EB235 – Chrome - Female x Male & Male x Female - Data Sheet

Description

Single Check Valves (type EB) with chrome plated brass body. The female inlet type are primarily intended for backflow protection from flexible hoses and are usually fitted between the servicing valve (or tap) and a hose. The male inlet types are often suitable for fitting to a tap tail. Single Check Valves only provide Fluid Category 2 protection yet many applications in the UK are deemed Fluid Category 3 – see ED235 range.

The Single Check Valve can be fitted to a washing machine hose (DN20) to prevent distasteful water contaminating the drinking (wholesome) water supply. Poor quality water from washing machine and dishwasher hoses is known to cause taste problems at the kitchen sink tap - use EB20FM235.

A Single Check Valve device can also be fitted to a hose to compliment a single check fitted to the tap supply, thereby providing Fluid Category 3 protection (type ED).

These valves can quickly be fitted. An EPDM washer is supplied with each device to facilitate fitting to flat-faced outlet.

Pipe Connections

The EB20FM235 has a female inlet and the male outlet. This configuration is ideal for washing and dishwashing machine hoses. Washing machine servicing valves normally have a 3/4" male thread (DN20), permitting the direct fitting of this check valve. All threads are BSP parallel.

The EB15MF235 has a 1/2" male inlet and can be fitted to a tap tail. Many applications require a double check – ED15MF235

EB20FM235 Single Check Valve designed specifically for the upstream of washing & dishwashing machine hoses to prevent taste problems. Female inlet, EPDM washer supplied



Water Regulations

Single Check Valves are suitable for backflow protection of Fluid Category 2 risks as defined in the new Water Regulations – July 1999.

A Single Check Valve on a clothes / dish washing machine hose is intended to address taste problems caused by the hose. The machine must have Fluid Category 3 protection for use in a house and Category 4 or 5 for other uses (see www.arrowvalves.co.uk click on tutorial 4).

The Water Regulations generally require "Point of Use" protection. The local water company can advise.

Materials

| | |
|------------|-----------------------|
| Body | Brass – chrome plated |
| Springs | Stainless steel |
| Cartridges | POM |
| Elastomers | NBR |

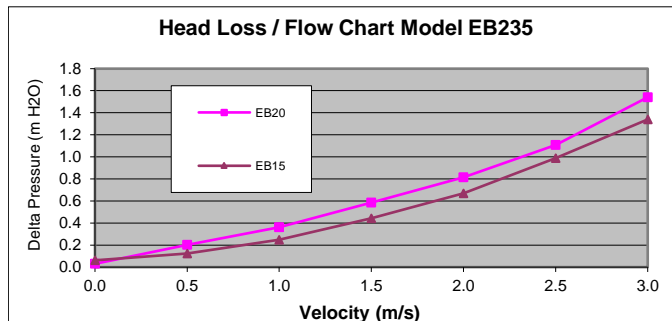
Applications

- Washing machine hose
- Prevent mixing of hot and cold water in mixer taps
- Upgrading an existing EB device to ED device

Specification

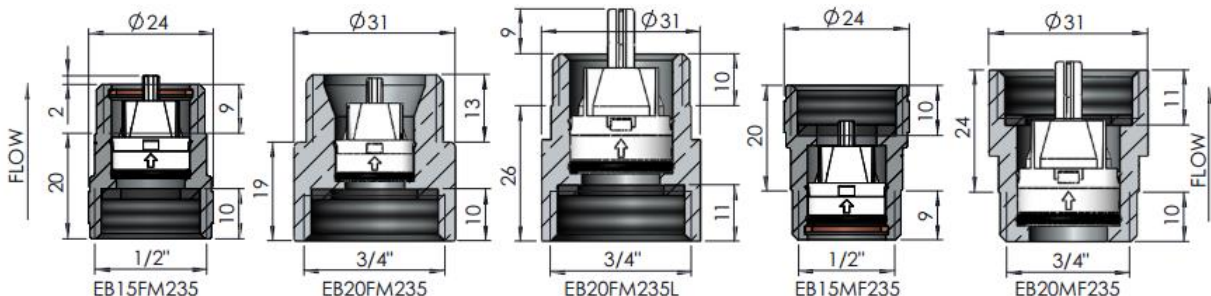
| | |
|------------------|--|
| Pressure | 10 bar max. |
| Test Pressure | 16 bar (reverse) |
| Opening Pressure | 0.013 bar |
| Temperature | Continuous - 65° C Intermittent - 90° C |

| | |
|----------------------------|---------|
| Water Regulations Approval | 1906374 |
|----------------------------|---------|



Note - Velocity based on flow of water through the bore of copper tube table X. See Flow Table to find the actual flow rate.

Dimensions



NOTE - DEPTH OF FEMALE THREAD IS REDUCED BY 1.5 mm WHEN EPDM WASHER (SUPPLIED) IS FITTED SM1138

Codes and Descriptions

| Size | Code | Description | Typical Application |
|------|------------|---|--|
| DN15 | EB15FM235 | Single Check Valve F inlet - M Chrome | Shower hose – in addition to existing single check – or use double check ED15FM235 |
| DN20 | EB20FM235 | Single Check Valve F inlet - M Chrome | Washing and dishwashing machine between valve and hose inlet |
| DN20 | EB20FM235L | Single Check Valve F inlet - M Large Chrome | Larger / high flow version – not suitable for washine washing hoses |
| DN15 | EB15MF235 | Single Check Valve M inlet - F Chrome | 1/2" Tap tail – in addition to existing single check – or use double check ED15MF235 |
| DN20 | EB20MF235 | Single Check Valve M inlet - F Chrome | 3/4" Tap tail – in addition to existing single check – or use double check ED20MF235 |

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www.arrowvalves.co.uk

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