

Pipe Interrupter – Type DB

Model DB256 – With Vent & Moving Element - Datasheet

Description

The type DB Pipe Interrupter is a backflow prevention device for specific Fluid Category 4 applications. The DB device is often fitted to a Hose Union Tap to improve the level of backflow protection.

The principle is similar to traditional bicycle tyre valves, where the flow enters a tube with the far end blanked off. This tube has several small radial holes, over which a flexible tube is stretched. The forward flow lifts the flexible tube and pushes it against the outer vent holes. When the supply pressure is released, the flexible tube contracts, venting the downstream and covering the inlet holes. The DB Pipe Interrupter is approved for backsiphonage protection – not back pressure.

DB Pipe Interrupters are generally used externally and must not be used for washing machines or any appliance that has a control valve or restriction. They are resistant to frost damage.

Connection Pipes

Female BSP inlet with male BSP outlet or male both ends. The DB is often fitted to the outlet of a Hose Union Tap. Modern ½" Hose Union Taps generally have a G¾" male outlet. Model DB20IL is an assembly with a female inlet (for fitting to tap), and a male DN20 Outlet with Hose Connector for ½" or ¾" hoses.

Specification

Pressure Supply 6 bar max.
 Temperature 60°C max.
 Approval WRc WRAS

Materials

Body Brass – Chrome Finish
 Internal Parts Plastic
 Membrane EPDM

Applications

The main application identified in the Water Regulations Guide is for porous hose "leaky" irrigation in a house garden. Water companies may accept small non-house porous hose applications in non-house situations.

Water Regulations

The new Water Regulations allow approved DB Pipe Interrupters to be used for Fluid Category 4 applications. When used for porous hose irrigation, the supply must be via a supply that has a Double Check Valve (Type ED) – see Standpipe model SPED and model ED132 datasheets.

Regulation Table S15.3 states – "Arrangements incorporating a type DB device shall have no control valves on the outlet of the device. The device shall be fitted not less than 300 mm above the spillover level of an appliance and discharge vertically downwards."

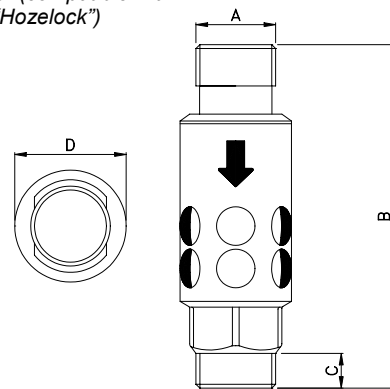
Clause G15.7 (wrongly) states that a strainer is required "immediately upstream of all backflow prevention devices required for Fluid Category 4. Where strainers are provided, servicing valves are to be fitted upstream of the line strainer and immediately downstream of the backflow prevention device". Note – a servicing valve must **not** be fitted downstream of a DB device. This clause was intended for BA devices (RPZ valve) and most water companies would not apply it to a DB device.



Model DB20IL15
 For fitting to most Hose Union Taps, c/w with quick release hose connector (compatible with "Hozelock")



Model DB15M256



Dimensions

SIZE	A	B _{MP}	B _{FP}	C	D	Kv
DN10	3/8"	89	82	7	29	0.26
DN15	1/2"	89	82	9	29	0.26
DN20	3/4"	89	82	10	29	0.61

Installation

DB Pipe Interrupters may drip water through the vent holes in normal use. The device must therefore be located outside or where the discharge would not cause damage.

The device must be mounted vertically with the inlet at the top. Note flow direction arrow. The device must be installed at least 300 mm above the highest outlet or spillover level.

Do not fit any valves downstream of the DB Device. An upstream strainer is recommended – e.g. Filterball model FB with 300 micron strainer. Do not insulate – not necessary. Replacement cartridges are available.

Codes and Descriptions

Size	Code	Description
DN20	DB20IL15	Pipe Int. DB 1/2" Inter-Lock Hose Conn.
DN20	DB20IL20	Pipe Int. DB 3/4" Inter-Lock Hose Conn.
DN10M	DB10M256	Pipe Interrupter DB CAT4 MBSP
DN15M	DB15M256	Pipe Interrupter DB CAT4 MBSP
DN20M	DB20M256	Pipe Interrupter DB CAT4 MBSP
DN20F	DB20FM256	Pipe Interrupter DB CAT4 Fin Mout BSP

Note
 Most ½" Hose Union Taps have a ¾" male thread. Adapter available for ½" taps with ½" thread.

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