

Low Loss Double Check Valve

Model ED132 – DZR Brass – Datasheet – Page 1 of 2

Description

Double Check Valves (ED device) with DZR brass valve bodies suitable for most pipe materials. Flat-faced connectors allow direct connection to the pipe without the need for sealants or additional adapters.

Oversize, high-flow Cartridges provide **exceptionally** low head-loss characteristics. E.g. pressure drop for the 15 mm valve at 3 m/s pipe velocity is just 0.1 bar compared with 0.5 bar for a conventional valve. This is especially important when used on non-boosted systems since mains water pressures are being lowered down to 1.0 bar (@ 9 lt/min) in many regions.

Flat-faced union connectors with soft washers allow valves to be easily installed to new or existing pipes without the need to spring pipes apart. This system allows for numerous pipe systems – see below. Valves are demountable.

Sprung-loaded Cartridges with resilient seats provide positive closure, no water hammer and low opening pressure.

Pipe Connectors

These are available from Arrow Valves -

Copper – Solder Unions or Press-Fit (Mapress/Yorkshire)
– Tectite® Push-Fit - 15 (non-union) & 22 mm

union

Stainless – Use Press-Fit Unions (Mapress/Yorkshire)

Plastic – Adaptors

Steel – Use Male Unions BSP

Specification

Pressure 10 bar max.
Test Pressure 16 bar (reverse)
Temperature max. Continuous - 65° C

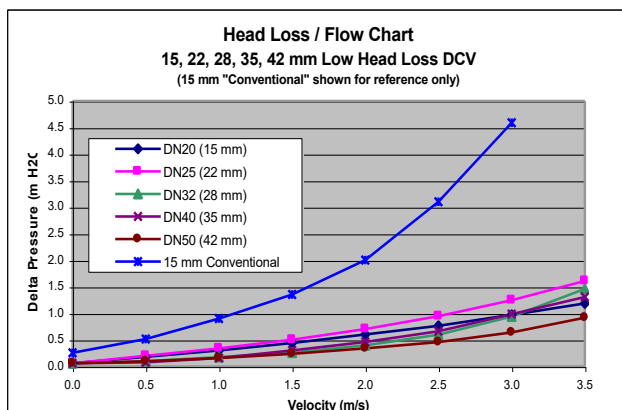
Water Regulations
Approval 2107716

Materials

Body CZ132 DZR Brass
Circlips, Springs Stainless steel
Cartridges POM
Elastomers NBR

Applications

Backflow prevention for fluids in Categories 1 – 3
Supply to flats and apartments – see *Branch Valve*
Hose union taps – see *our range*
Domestic washbasins, baths and showers
Water softening plant (common salt only)
Hose union taps (houses only – inside property)



Model ED22SU132
22 mm Double Check Valve with Solder Unions



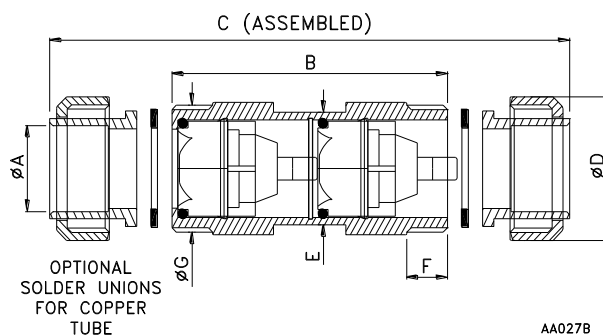
Water Regulations

Double Check Valves are suitable for backflow protection of Fluid Category 3 risks as defined in the new Water Regulations – July 1999. An ED device should be fitted as whole site protection to the supply of separately occupied premises (whether or not they are separately chargeable). In other cases, an ED device should be fitted at points of use – i.e. one per appliance (Schedule 2, paragraph 15). Refer to *Branch Valve data sheet*.

Valves should not be buried. Test points between the check valves are no longer required. Hose union taps with integral check valves are no longer acceptable for new installations.

Many applications listed as Fluid Category 3 (requiring DCV) become Fluid Category 4 (requiring RPZ – available from Arrow Valves) when used for commercial (non-house) situations – e.g. heating systems.

Dimensions



ØA	B	C (SU)	ØD	E	F	G
15	50	93	33	23	10	3/4"
22	78	133	41	29	12	1"
28	105	170	52	37	14	1 1/4"
35	120	195	60	45	16	1 1/2"
42	139	224	66	55	20	2"
54	139	213	83	65	22	2 1/2"

Arrow Valves Ltd

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Arrow Valves Ltd reserve the right to change specifications, design and materials at any time without notice.

All unit-less dimensions in mm.

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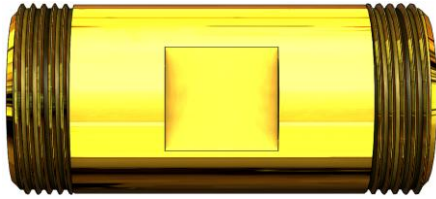


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Low Loss Double Check Valve

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Flat-Face



Male Union Connection



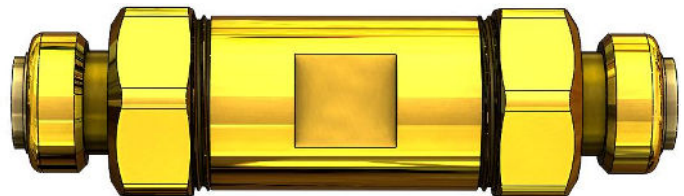
Sizes	Code	Description
20	ED20MP132	DN20 132 Low Loss Double Check Flat-Face
25	ED25MP132	DN25 132 Low Loss Double Check Flat-Face
32	ED32MP132	DN32 132 Low Loss Double Check Flat-Face
40	ED40MP132	DN40 132 Low Loss Double Check Flat-Face
50	ED50MP132	DN50 132 Low Loss Double Check Flat-Face
65	ED65MP132	DN65 132 Low Loss Double Check Flat-Face

Sizes	Code	Description
15	ED15MU132	DN15 132 Low Loss Double Check Valve Male Union
20	ED20MU132	DN20 132 Low Loss Double Check Valve Male Union
25	ED25MU132	DN25 132 Low Loss Double Check Valve Male Union
32	ED32MU132	DN32 132 Low Loss Double Check Valve Male Union
40	ED40MU132	DN40 132 Low Loss Double Check Valve Male Union
50	ED50MU132	DN50 132 Low Loss Double Check Valve Male Union

Solder Union Connection



Tectite Union Connection



Sizes	Code	Description
15	ED15SU132	15mm 132 Low Loss Double Check Valve c/w SU
22	ED22SU132	22mm 132 Low Loss Double Check Valve c/w SU
28	ED28SU132	28mm 132 Low Loss Double Check Valve c/w SU
35	ED35SU132	35mm 132 Low Loss Double Check Valve c/w SU
42	ED42SU132	42mm 132 Low Loss Double Check Valve c/w SU
54	ED54SU132	54mm 132 Low Loss Double Check Valve c/w SU

Sizes	Code	Description
15	ED15TU132	15mm 132 Low Loss Double Check Tectite Union
22	ED22T132	22mm 132 Low Loss Double Check Valve Tectite

Notes

Other pipe connectors available – please contact us.
The Flat-Faced Union design has a thread size larger than the nominal pipe.
E.g. 15 mm valve has a 3/4" male thread.

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