

AVK STANDARD AND FLEXIBLE COMBI-CROSS



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GREAT ADVANTAGES WITH AVK COMBI-CROSS

Why to use a combi-cross

A combi-cross is a compact and beneficial alternative to installation of several gate valves on locations with limited space:

- If you want an access point to the network, e.g. for pipe cleaning
- If you want to minimise the size of your installation
- If you want to reduce the number of bolted connections (potential leaks)
- If you want to save installation time
- If you want to mount a hydrant where 2 main lines are crossing

Standard or flexible design

For installations where all three or four pipes are of the same DN, and where you do not expect to change pipe size at a later stage, a standard combi-cross is recommended.

Flexible combi-crosses are recommended

for applications, where you want a special configuration and different valve sizes on the outlets in order to save transition fittings, and if you want the possibility to re-configure - or if you need a combi-cross in DN400.

Standard combi-cross range

The standard combi-cross with fixed valves is available in DN100-300 and with three or four flanged valve outlets. Furthermore, with DN80 or DN100 centre part, and with or without ball valve service outlets.

Flexible combi-cross range

The flexible combi-cross is available with DN100-400 centre part, and any of the four outlets can be mounted with valves in DN80-400, flange outlets in DN100-200 and blind caps in DN100-400. It is available with or without ball valve service outlets and with stems of stainless steel or duplex steel.



FULL FLEXIBILITY WITH FLEXIBLE COMBI-CROSS

Outlets in different sizes

Often only two of the outlets are needed in full DN size, whereas the other outlets are to be connected to pipes of smaller dimensions.

The centre part can be mounted with 3 or 4 valves of different sizes, while the face-to-face dimensions remain unchanged. Alternatively with a flange outlet or a blind cap for later installation of a valve on any of the four outlets. Since there is no need for transition or reduction flanges, installation of a flexible combi-cross saves time and money.

Easy replacement

The valves, flanges and blind caps are connected to the centre part with a two-part ductile iron bracket based on a coupling design similar to the renowned Victaulic design. A profiled gasket of EPDM seals the connection. The design enables vertical replacement of the valves without the use of special tools. To ease installation, a guide hinge is cast on the valve side.



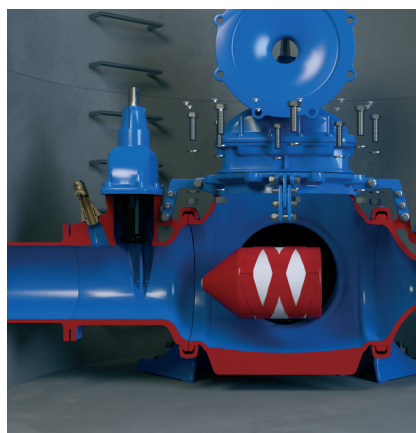
Full bore centre outlet

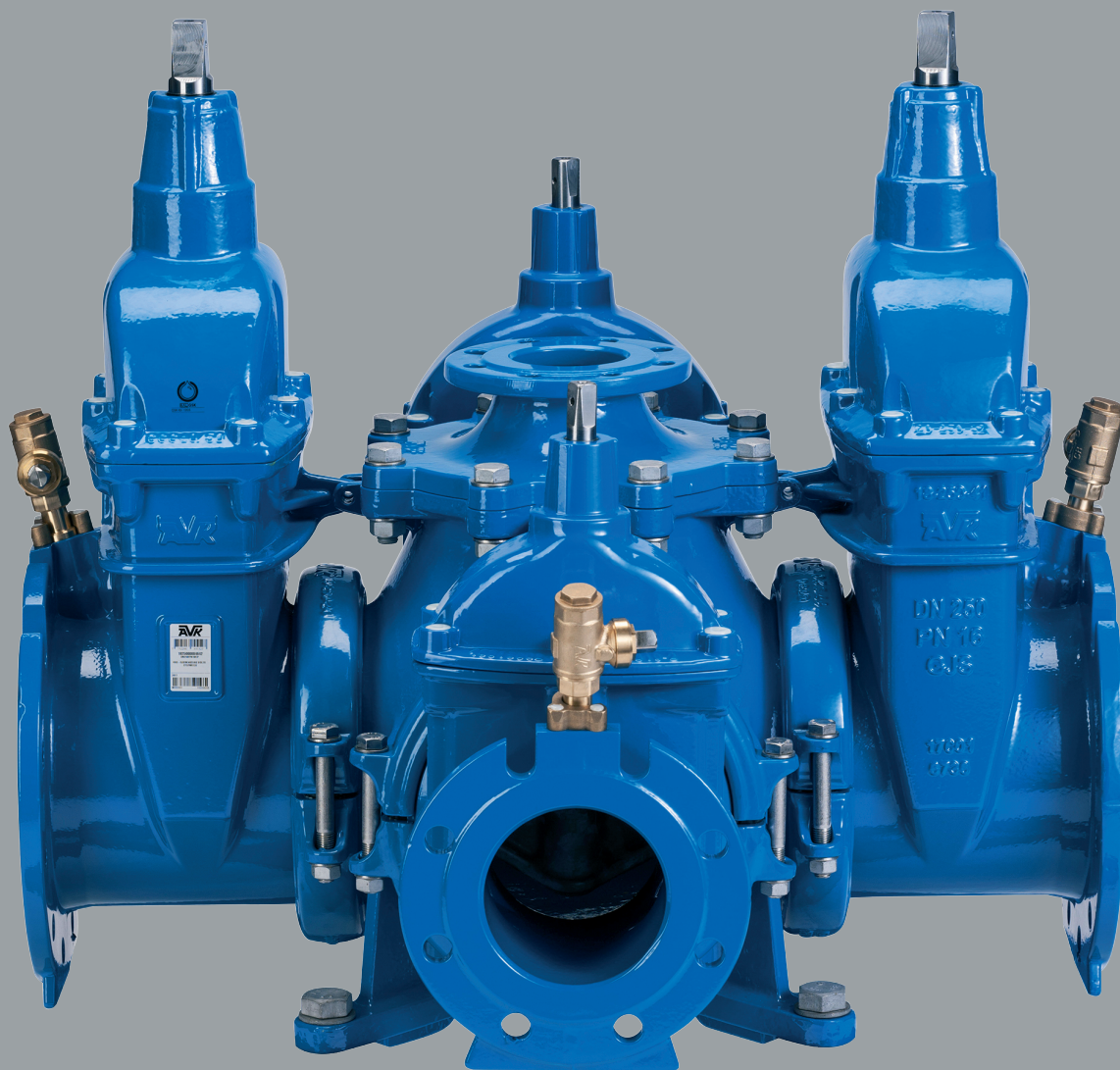
The full bore centre outlet allows for insertion of solid foam pipe cleaning devices, and the DN100 flange can be used for mounting a hydrant or as inspection access point to the water stream. The centre outlet lid is mounted with standard bolts and nuts thus avoiding threads directly in the casting. An O-ring placed in a recess provides optimal tightness between the centre part and the lid.



Safe anchoring

The AVK combi-cross is designed to meet stringent safety requirements. Even when valves are disconnected and removed from the centre part, the anchoring remains unaffected. This provides maximum safety for the staff working in the concrete chamber, since the forces from pressure and pipe movement are directed through the fixing lugs and into the standard concrete foundation.





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2021-11-15
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