

# THREADLESS CONNECTION SYSTEM

Expect... **AVR**

# AVK SUPA LOCK™ THREADLESS CONNECTION SYSTEM



Connecting valves and fittings with a threaded connection can be time-consuming and often, it leaves part of the thread exposed to the medium and the external environment. Over time this will cause corrosion of the uncoated thread and may even result in a leakage. Supa Lock™ solves this problem.

## Full corrosion protection

The patented Supa Lock™ system, provides a 100% corrosion free joint combined with fast and easy assembly with maximum flexibility. Thanks to its simple and ingenious design, Supa Lock™ offers long-term safety with optimum protection against corrosion and leaks and also protection against accidental disassembly of the joint when the pipeline is pressurized.

## Valves, tapping saddles and fittings

The wide Supa Lock™ range consists of valves, tapping saddles and fittings in ductile iron with a heavy duty epoxy coating complying with the strict GSK requirements. Furthermore, ball valves and fittings in dezincification resistant brass complying with the EU directive for material used in drinking water installations are part of the range.

**Easy two-step assembly**  
After having lubricated the O-rings, the Supa Lock™ spigot end is pushed into the Supa Lock™ socket end, and the safety retainer is clicked on – and the assembly is done!





### Self-locking safety retainer

Supa Lock™ is designed as a tensile joint and withstands pressures up to PN16 x 1.5. The safety retainer is designed with an edge (1), which makes it self-locking whenever there is pressure in the pipeline. Therefore, no accidental disassembly can take place. The safety retainer has two finger knobs (2) for easy assembly and disassembly.



### No rotation of valves and connectors

Free rotation is restricted for the valves and the threaded connectors used for drilling machines to enable effective drilling. Small cast notches placed on the outer rim of the socket end and on the inner rim of the spigot end interlock and prevent rotation.



### Heavy duty O-rings provide extra safety

All Supa Lock™ joints are fitted with heavy duty Ø7 mm O-rings. They provide extra safety when taking into account that a minor permanent deformation of the O-rings is to be expected over the lifetime of the product. Also, when the joint is exposed to bending as a result of ground movements, the large O-rings provide maximum safety.

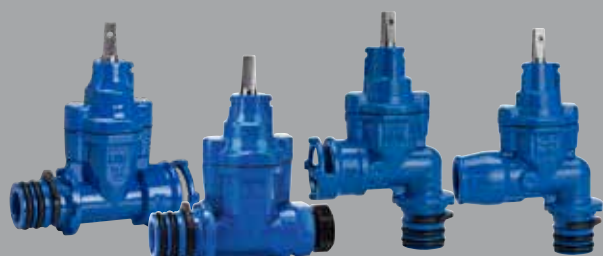
### Corrosion-free access point

For flanged connections in DN80-400, the wafer type spacer with Supa Lock™ socket connections offers a corrosion protected access point to the pipe. It can replace a tapping and in that way avoid weakening of the pipe.

### 360° rotation of fittings

The design allows for a 360° rotation of the fittings, which is a unique feature only offered by the Supa Lock™ system. The free rotation of the joint allows the installer to direct the service pipe outlet in any direction from the main pipe, thus avoiding collision with other pipes or obstacles in the trench.





### Supa Lock™ valves

The service connection valves in ductile iron have one Supa Lock™ spigot end and one Supa Lock™ socket end, PRK coupling or push-in socket end. The valves are of the renowned AVK design with triple stem sealing and rubber vulcanized brass wedge.



The brass ball valves feature a solid ball with non-stick PTFE seat rings and are available with three different end configurations: One Supa Lock™ spigot end and one threaded end, alternatively PRK coupling or tensile screw coupling for PE pipes.



### Supa Lock™ tapping saddles

The tapping saddles suitable for PVC/PE pipes Ø63-225 mm and iron/steel pipes Ø60-223 mm are designed with a Supa Lock™ socket outlet. A large profiled rubber gasket of drinking water approved EPDM rubber ensures a drop tight seal against the pipe, and A4 nuts located in a recess ease the installation and prevent them from rotating when tightening the bolts.

The tapping saddles for blade shut-off are suitable for iron/steel pipes Ø50-360 mm. They are designed with a ductile iron saddle head and a strirrup in stainless steel. The tapping saddle acts as a temporary valve during the drilling process. The tapping head with blade shut-off is a low-cost alternative to a valve, but without offering the possibility of operation from ground level.



### Supa Lock™ fittings

The push-in fittings for PE pipes are available as straight fittings Ø32-63 mm and angled fittings Ø25-63 mm and are designed with a hydraulic lip seal gasket and a tension ring. The fitting with PE pipe end enables direct welding into PE pipes and the fittings with PRK and screw coupling feature integrated sealing and tensile resistance. Available for Ø32-40 mm PE pipes and up to 50 mm in the brass variants.

The angled fittings can be rotated 360° once installed, thus offering great flexibility. The free rotation of the joint allows the installer to direct the service pipe outlet in any direction from the main pipe, thus avoiding collision with other pipes or obstacles in the ground.



### Supa Lock™ spacer and blind plug

For flanged connections in DN80-400, the wafer type spacer with Supa Lock™ socket connections offers a corrosion protected access point to the pipe without need for making a tapping. The Supa Lock™ blind plug is used for temporary or permanent plugging of Supa Lock™ valves and spacers. It features a large handle for easy removal.

### Supa Lock™ threaded connectors

The threaded connectors with internal thread for connection to drilling machines are available in ductile iron or brass. They are designed with rotation stop to prevent the fitting from rotating during the drilling process. The connectors can of course be reused.

The transition connectors with external thread are used to connect a threaded system to the Supa Lock™ system.



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