



## OPERATION AND MAINTENANCE INSTRUCTIONS

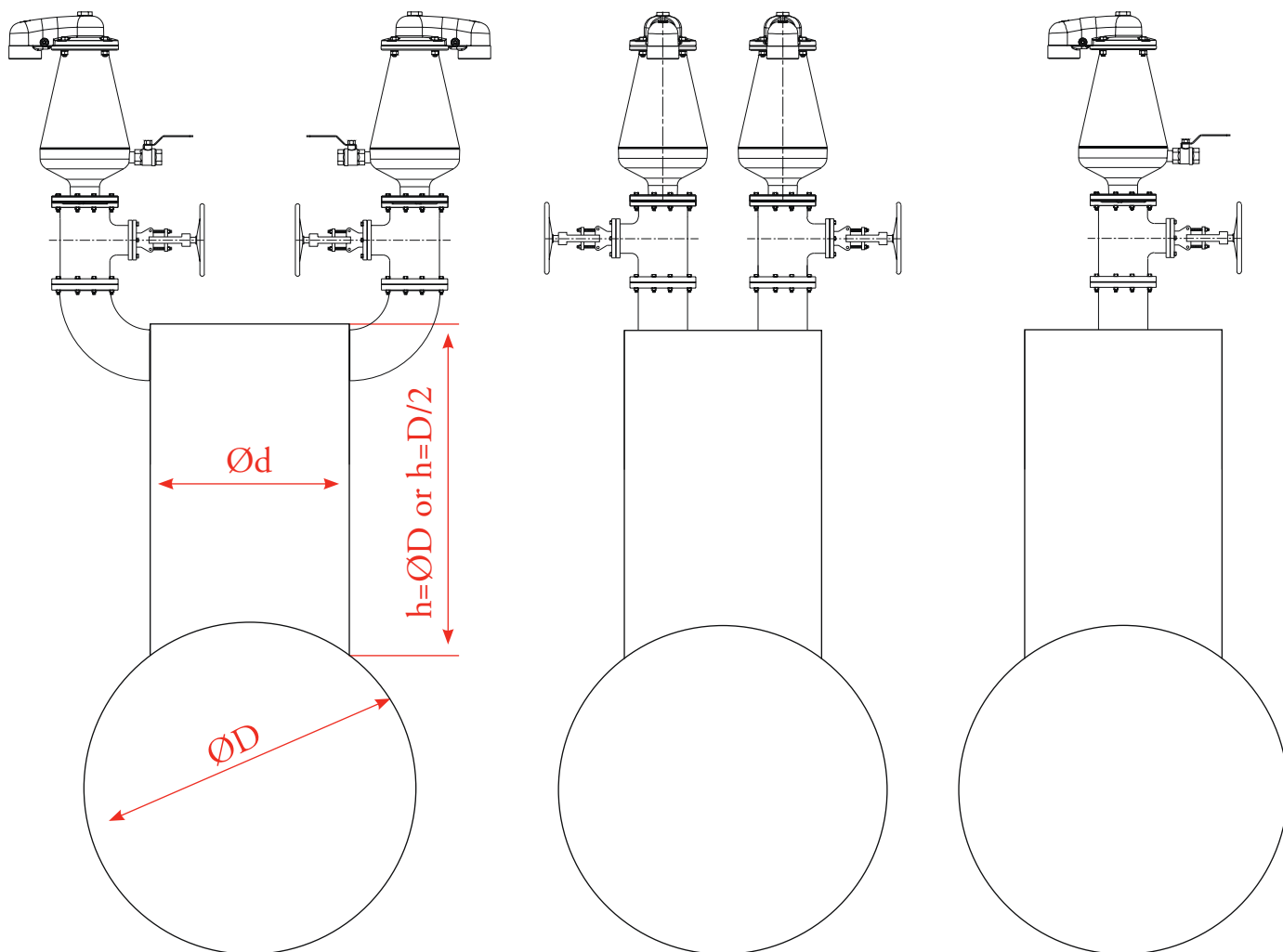
### AVK Air Valve Installation Guide

Please see installation recommendations for wastewater systems. Included are recommendations for sizing the pipeline risers and the placement of air valves on the various sections of the system.  
Further information can be obtained by contacting AVK directly (see contact details at the bottom of each page)

#### RECOMMENDATION FOR RISER DIMENSIONS

$d=D$	for	$D \leq 12 \text{ Inch}$
$d=0.6 D$	for	$12 \text{ Inch} < D \leq 60 \text{ Inch}$
$d \geq 0.35 D$	for	$D > 60 \text{ Inch}$

$h \geq D$  or  $h=D/2$  and  $h \geq 6 \text{ Inch}$



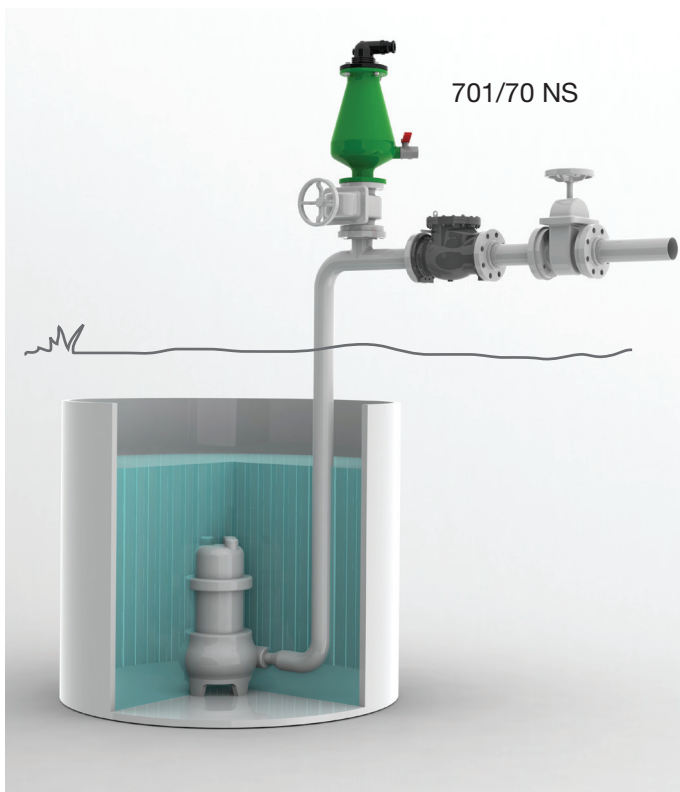
## AVK Air Valve Installation Guide

Air Valve Type According to Pump Type:

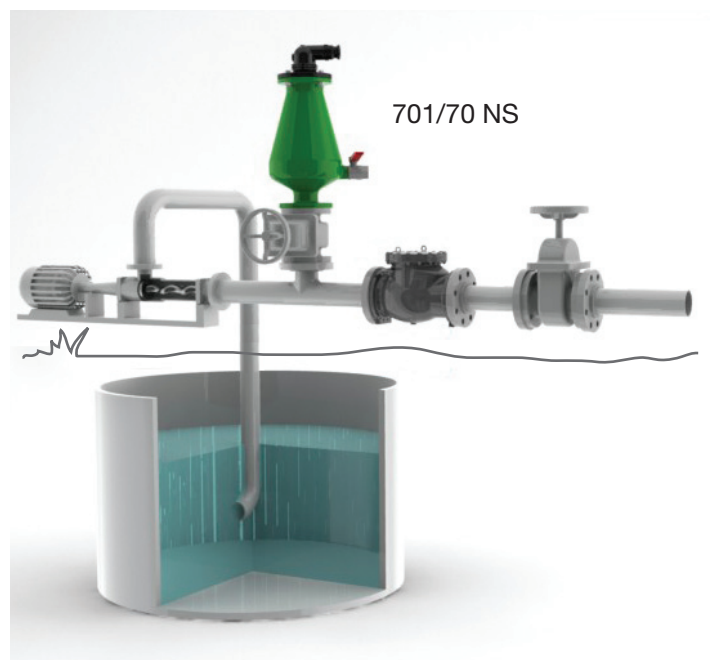
A non slam type combination air valve shall be installed after a submersible or suction type pump.

An automatic air valve shall be installed after the dry well pump.

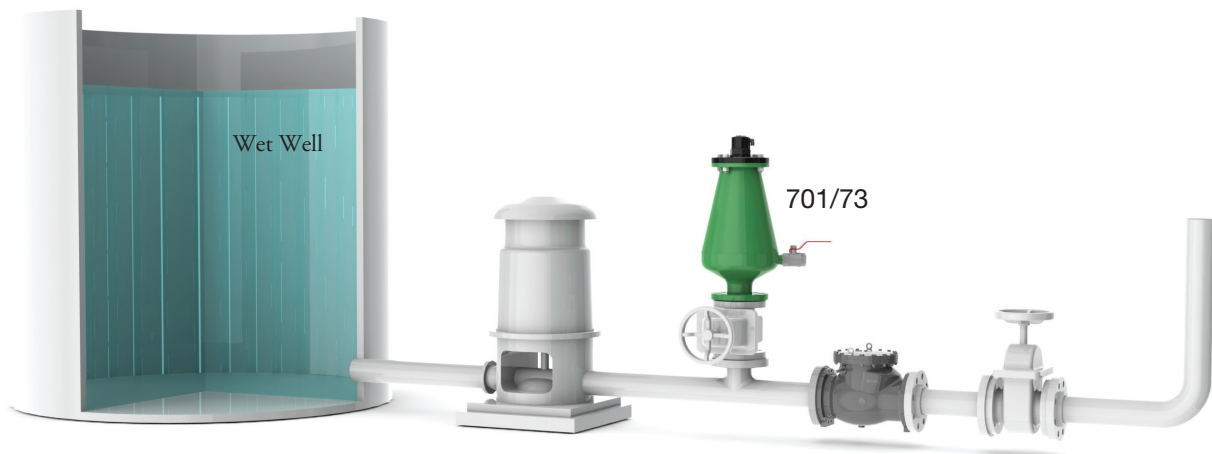
Pumping with a submersible pump.



Suction pumping  
(Centrifugal / Progressive Cavity pump).



Dry well pumping.



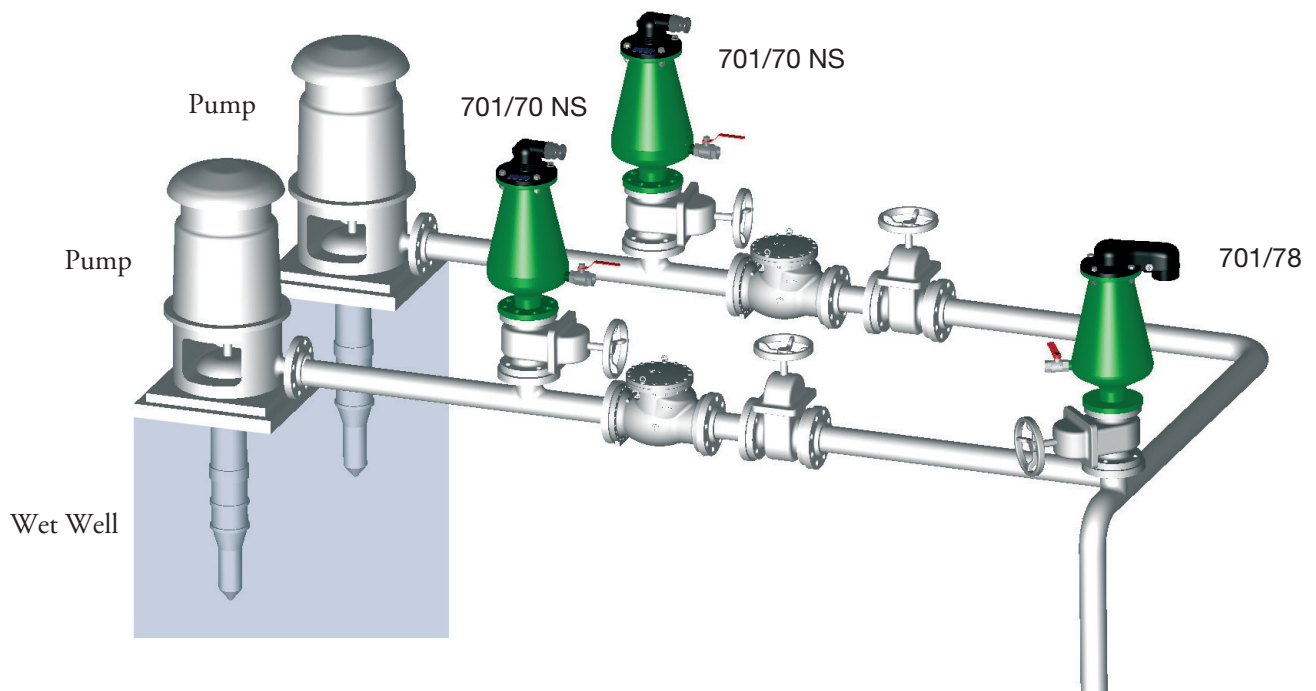
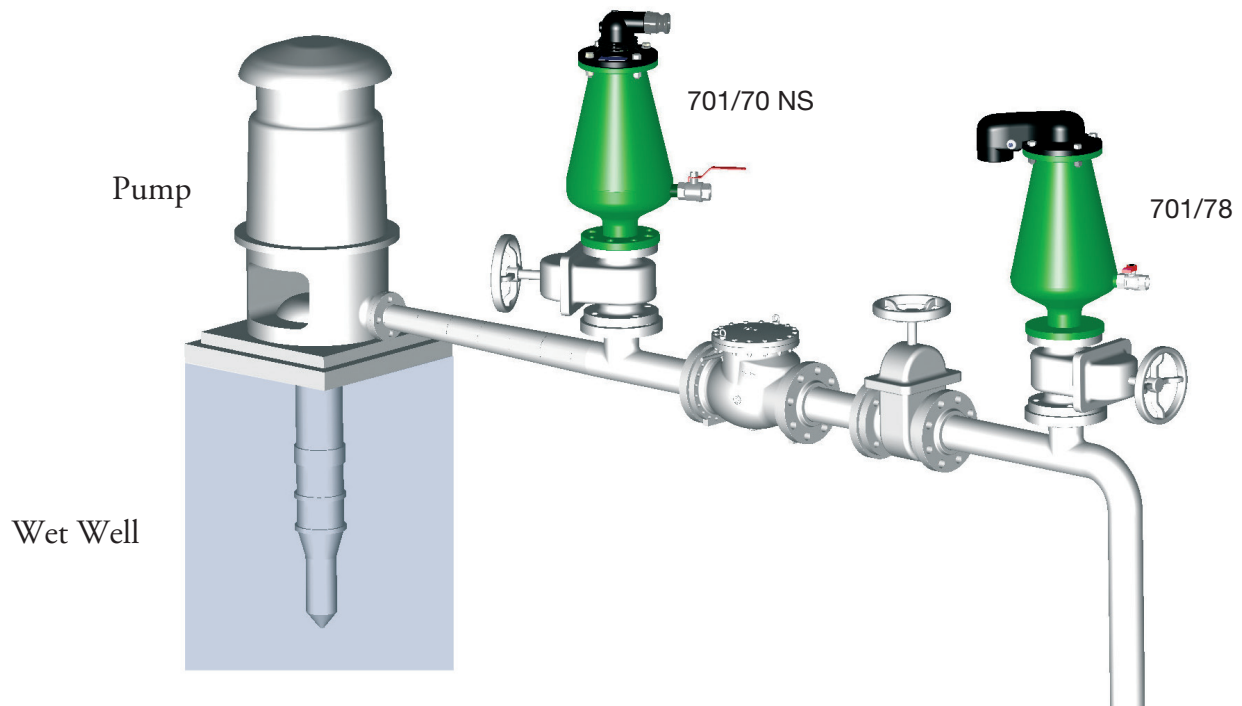
## AVK Air Valve Installation Guide

### SAMPLE SETUPS FOR PUMP STATIONS

#### Air Valve Location:

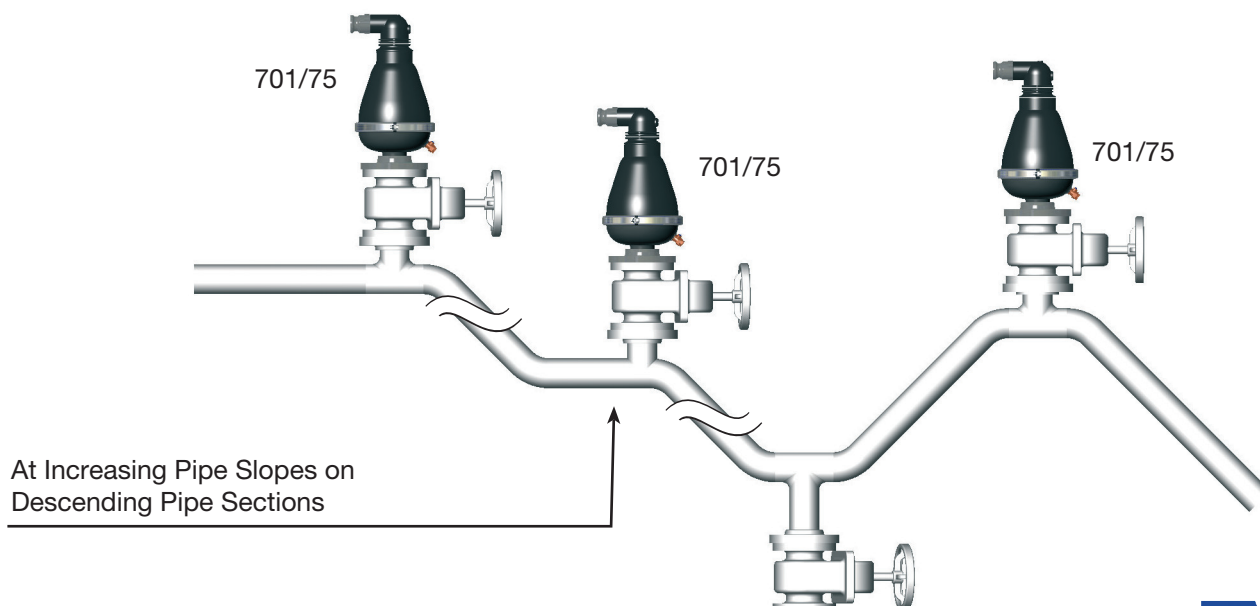
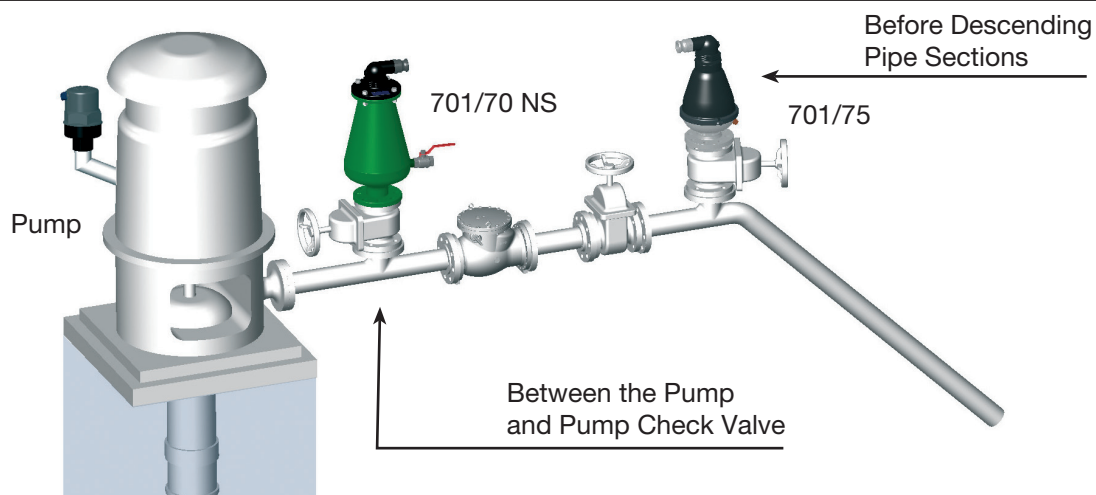
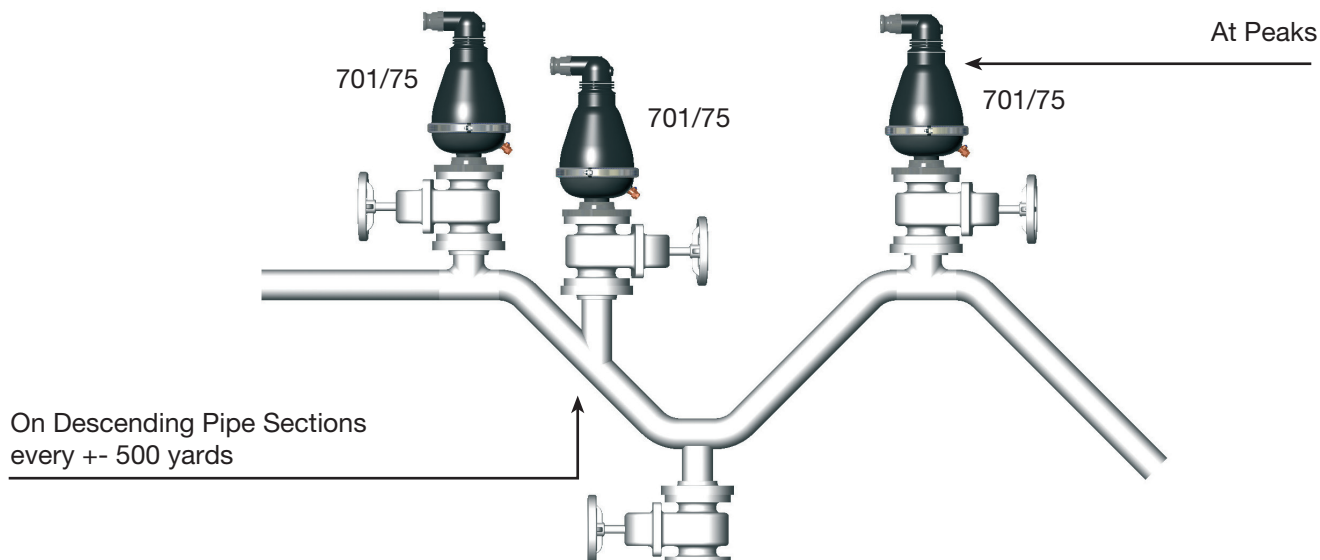
An air valve shall be installed between the pump and the check valve.

The diameter and pressure of the air valve will be determined according to the design of the system.



## AVK Air Valve Installation Guide

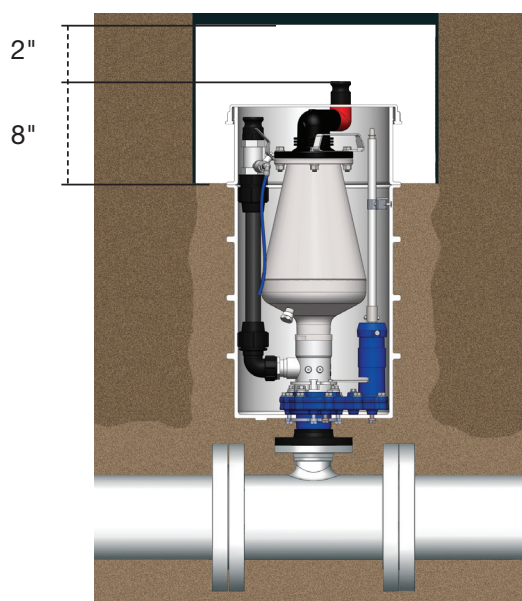
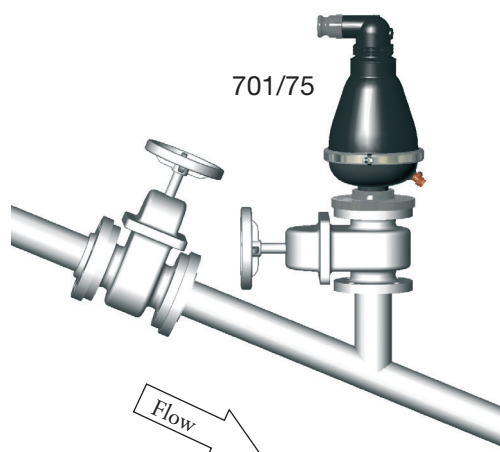
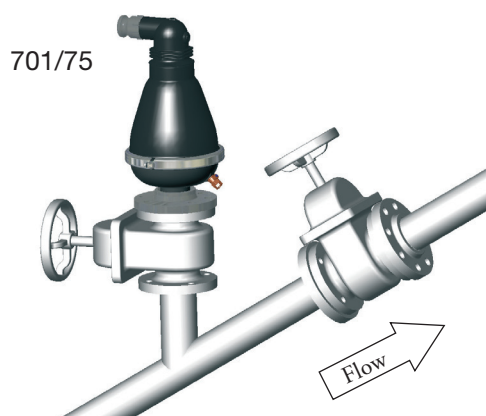
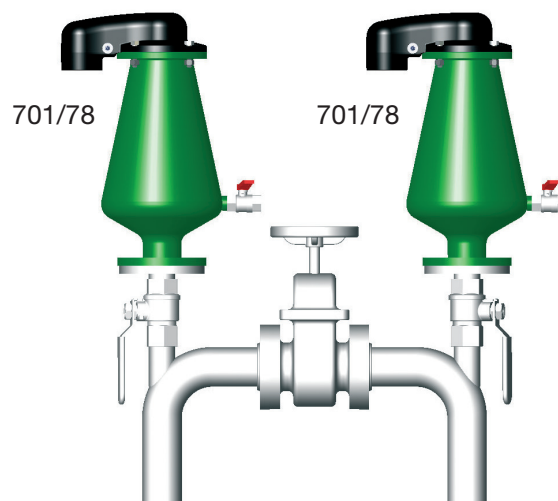
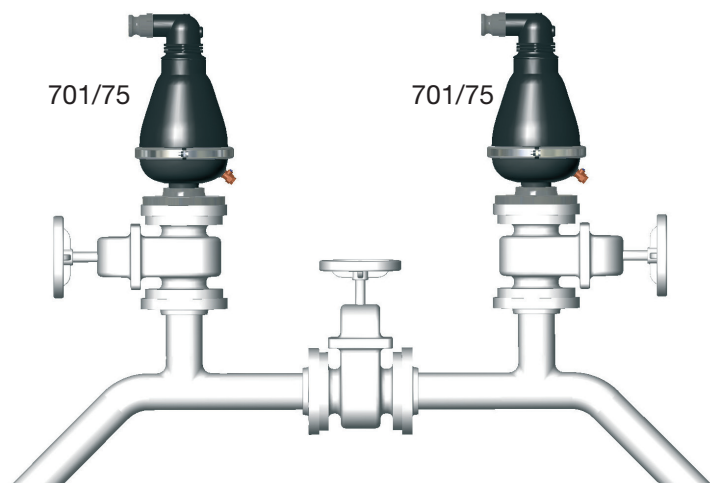
### AIR VALVE LOCATION AT PUMP STATIONS AND ON TRANSMISSION LINES



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## AVK Air Valve Installation Guide

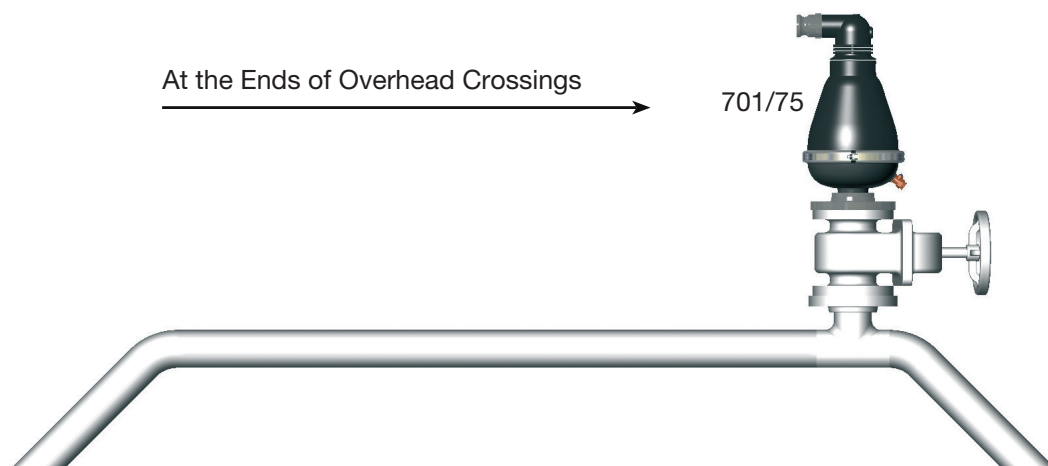
### SAMPLE AIR VALVES APPLICATIONS AT ISOLATING VALVES



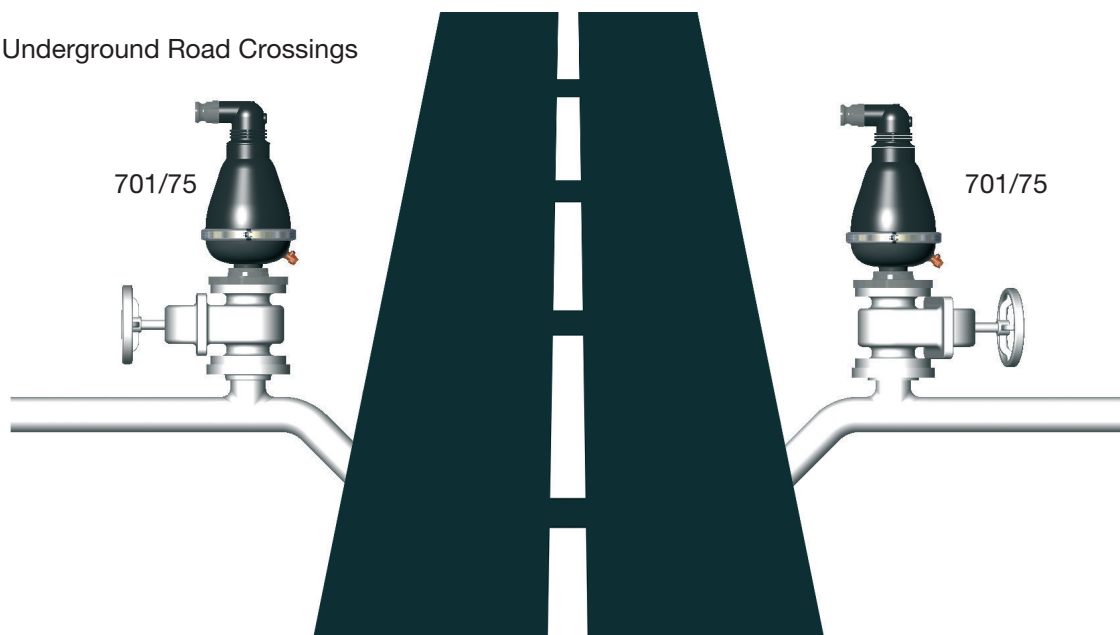
### SAMPLE INSTALLATION SCHEME FOR UNDERGROUND AIR VALVES

## AVK Air Valve Installation Guide

At the Ends of Overhead Crossings



At the Ends of Underground Road Crossings



Air Discharge at Dead Ends

