

## Piston type anti-siphon valve KAV



### Benefits

- Piston instead of diaphragm - for maximum safety even in case of pollution, ice or system overpressure
- Adjustment value corresponds to the safe height (reduced line resistance)
- Also for outdoor use (manhole)
- Sealed system for error-free operation
- Pressure relief mechanism in both directions
- Materials resistant to biofuel and biodiesel with max. 100 % FAME
- Proofed Barrier (odour-tight)
- Watertight up to 10 m water column - ideal for use in flood hazard areas

### Application

For oil carrying suction pipes in oil consuming systems where a pipe section is below the maximum tank level. KAV keeps fuel oil from being siphoned out of the tank in the case of leaks in the suction line. Suitable for the following media: fuel oil (DIN 51603-1) and diesel fuel (EN 590) as well as biofuel and biodiesel with up to 100 % FAME. Also for use in flood hazard areas.

### Versions

	Part no.
Piston type anti-siphon valve KAV	20240
Pressure gauges -0.7/+0.9 bar	70030

Blue part no. = in-stock items

### Description

Vacuum-controlled shut-off system with a completely new function principle. KAV is closed when the burner pump is not in operation. When the burner pump starts, a vacuum is generated in the suction line. This opens the KAV and fuel oil is pumped from the tank. If the suction line has a leak or if the burner pump stops, KAV closes and the suction line between the tank and the burner pump is closed. KAV features a pressure relief mechanism, i.e. if the fuel oil contained in the suction line heats up and therefore expands, KAV opens. The fuel oil can flow back into the tank (provided that a tank withdrawal fitting without backflow preventer is installed). The pressure relief is independent of the adjusted safe height and operates reliably at a response pressure as low as 300 mbar. KAV is continuously adjustable from 1–4 m. The adjusted value corresponds to the actual safe height and not the installation height (as, for example, in the case of diaphragm type anti-siphon valves). This results in reduced line resistance, which has a positive effect on the service life of the burner and the pump. KAV is designed as a sealed system. Therefore, no vent is required and water or dirt cannot get into the system. Since the sensitive diaphragm as the main actuating element has been replaced by a piston, malfunctions caused by pollution, ice or system overpressure (rupture of the diaphragm) are practically impossible. Watertight up to 10 m water column.

## Technical specifications

### Adjustment of safe height

Corresponds to actual safe height  
1 – 4 m, fully adjustable

### Connection thread

Both ends G½ female

### Mounting position

Any

### Oil flow rate

Max. 220 l/h

### Operating temperature range

Medium: -25/+40 °C

Ambient: -25/+40 °C

### Vacuum-tight

Bis -1 bar

### Test pressure

Max. 10 bar

### Response pressure

300 mbar

### Material

Housing: Brass

### Approval for construction products

DIBt: Z-65.50-415

### Scope of delivery

- Piston type anti-siphon valve
- Screw connector kit for pipes Ø 6, 8 and 10 mm
- Lead sealing kit

## Detail views

