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3.5" Aluminum Pneumatic Vapor Valve Flanged Mount



The aluminum 3.5" (89mm) pneumatically actuated interlock vapor valve is designed as a positive vapor recovery valve for use on DOT cargo tanks with markings per US DOT 49CFR§178.345-5(f). The sequential interlock design allows vapor valve to be plumbed in series with loading or unloading valve. Air supply to "IN" port of vapor valve will only exit to "OUT" port after vapor valve has positively opened. If an interlock feature is not required, outlet port can be plugged and valve will function as a basic non-interlock vapor valve.

The vapor valve features exceptional flow with an inward opening disk and a tapered seat to ensure a tight seal and prevent loss of lading due to surge or roll-over accident. An aluminum body with FEP Teflon® main seal, fluorosilicone air cylinder seals, and stainless trim offers compatibility with a wide variety of products.**

A flanged mounting configuration is provided for mounting to a standard 20" offset manhole cover. The eight 3/8-16 bolts install from inside the tank for added security. Air connections are 1/8" NPT.

The vapor valve meets shell strength test of 73 psig (5.0 bar). Maximum operating pressure is defined as maximum tank pressure that valve can open against with given air-line pressure.

The maximum operating pressure of vapor valve is:
15 psi (1.0 bar) with 90 psi (6.2 bar) line pressure supplied. *
20 psi (1.4 bar) with 120 psi (8.3 bar) line pressure supplied.*

Assembly Number	Description	Main Seat O-Ring	Mounting Gasket	Stem O-Ring	Temp. Range *	Weight
AVF3.5ALTS	3.5" Interlock Vapor Valve	FEP Teflon®	Cork/Buna	Fluorosilicone	-50°F to +250° F [-45°C to 121°C]	4.5 lbs. [2.0 kg]
AVF3.5ALVT		FKM-A	FKM-B	FKM-A	-15°F to +350° F [-26°C to 176°C]	
AVF3.5ALVB		FKM-BLT	FKM-B	FKM-BLT	-11°F to +350° F [-24°C to 176°C]	
AVF3.5AYTS	Valve with black e-coated body and o-ring holder	FEP Teflon®	Cork/Buna	Fluorosilicone	-50°F to +250° F [-45°C to 121°C]	
AVF3.5AL**022	Valve with stainless steel mounting bolts.	As Specified by Part Number			O-Ring Material Dependent	

Note: Fluorosilicone seals standard for air cylinder unless three digit number suffix added to part number designating alternate material. Optional 1.25" thick mounting riser available as part number 75126AL and stainless steel screen installed in outlet is available as a special.

* Values shown are test values. Actual values may vary due to service conditions.

** Last two letters of part number designate seal material.