1 1/4" (ND32) SAFETY RELIEF VALVE
SINGLE ACTING PRESSURE OR VACUUM SRV
YAK VXS3

SAFETY RELIEF VALVE

INSTALLATION

STORAGE

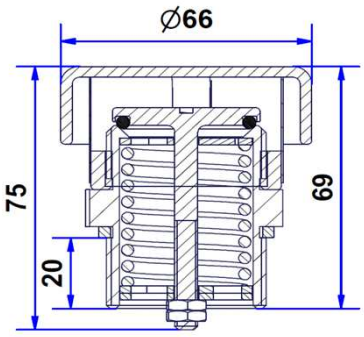
Keep the "YAK VXS3" safety relief valve in original packaging, until ready to use. It will prevent the valve from dust and will protect it againts potential impacts. The weldin flange must be machined BSP or NPT as per Safety Relief Valve.

OPERATING

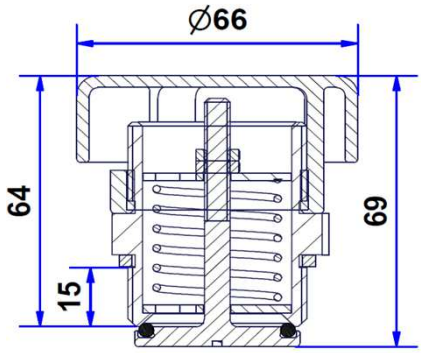
The pressure relief valve is designed to be installed on pressurized tanks up to maximum available working pressure 4 Bar. The material used is 1.4404 316L stainless steel, please check the fluid compatibility.The YAK VX™ 1 1/4" safety relief valve is designed to protect tanks against accidental over-pressure OR excessive vacuum. The vacuum setting range is from -0,02 Bar to -0,8 Bar and the pressure setting range is from 0,2 Bar to 3,5 bar.

This pressure or vacuum setting is done by the spring set compression on the pressure plate.For Pressure valve (drawing on the left) : When the set pressure is reached, the pressure plate opens and allows the over pressure to be evacuated, then where the pressure balance is reached the pressure plate closes.In case of high pressure increase, the pressure plate translates to open a maximum of surface to allow a high flow evacuation. For Vacuum valve (drawing on the right) : When a vacuum is created into the tank,the poppet slides down, opens and allows air to come into the tank avoiding tank implosion.

Valve 1"1/4 Pressure



Valve 1"1/4 Vacuum



ASSEMBLY

The coverlid protects the operator in case of valve opening. Nevertheless the relief valve should be installed in protect area where there is no risk for an operator to be in contact with the gas or liquid when valve opens in case of over pressure in the tank.
Before installing, the relief valve check there is no dirt or dust on both valve and flange threads. Tighten to a torque equal to 40Nm with a 46 mm spanner on a 1 1/4" BSP tank pad 46mm(or 1 1/4" NPT, or 1 1/2" BSP or 1 1/2" NPT depending on your YAK VX model). Check the PTFE gasket is correctly compressed, no leak should occur between flange and gasket area when tank is pressurized.

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