

MAINTENANCE

VALVE INSTALLED ON THE TANK

1. Make sure tank pressure is lower than service pressure.
2. Go to the area where the valve is installed.
3. Remove the cap to have a visual check on the poppet seal.
4. Check no leak exists between the poppet seal and the seat, this check can be done with leakage detection fluid. If a leak exists, follow next points to dismantle the relief valve for further maintenance.

REMOVE THE VALVE FROM THE TANK

1. Before any operation, check there is no pressure in the tank.
2. Unscrew the YAK VX from the flange using a 46mm spanner, remove the valve.
3. Plug the hole in the flange with a blind cap to protect the tank from dust.
Further valve disassemble should be done in a workshop.

RELIEF VALVE DISASSEMBLY

We recommend this operation **every two years**.

CAUTION: the springs load can achieve 40 daN, when tightening nut on the poppet is removed, the springs can violently relief this preload.

For Pressure valve :

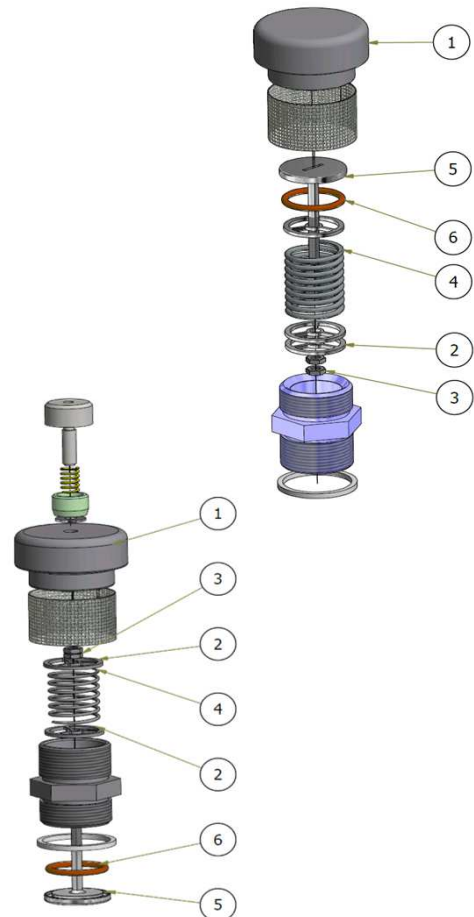
1. Remove screwed cap (1)
2. Install the valve under a shop press, push with a tube on the spring retainer plate (2) to maintain spring compressed.
3. Remove the nut and the counter nut (3)
4. Release slowly pressure on the press to relieve the spring (4).
5. Remove spring (4), plate (2) and poppet (5).
6. Replace poppet seal (6) by a new one. Heat new o'ring in hot water before installing it around poppet groove.
7. Reassemble the valve.

CAUTION: cap must be installed when valve is fitted on the tank.

For Vacuum valve :

1. Remove the cap (1)
2. Push on plate (2) to relief spring (4).
3. Remove the nut and the counter nut (3)
4. Remove spring (4), plate (2) and poppet (5).
5. Replace poppet seal (6) by a new one. Heat new o'ring in hot water before installing it around poppet groove.
6. Reassemble the valve.

CAUTION: cap must be installed when valve is fitted on the tank.



SET PRESSURE RIGGING

The valve is installed on a test rig. The pressure is measured with a manometer precision class 0,5.

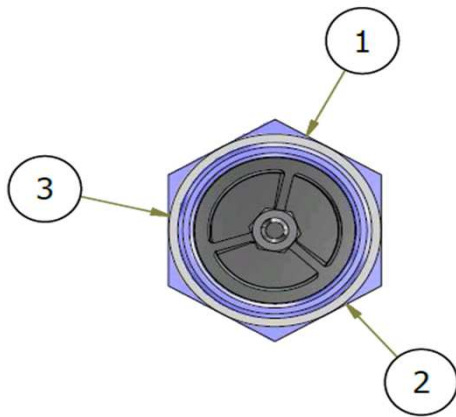
The leakage is detected with leak test fluid at pressure seal interface.

1. Slowly increase the pressure. When first bubbles appear at pressure plate seal, note the pressure.
2. Adjust the counter nut to get the set pressure.

If set pressure can not be achieved easily, we recommended to change the spring set (4).

The relief valve is ready to operate on the tank.

BODY MARKING (Example)



	MARKING	EXAMPLE
Face 1	Product	YAK VX
	Connection	1 1/4"
	Poppet seal material	Silicone
	Codification	VXS3BFP03FZCG
Face 2	Type of valve	Pressure valve
Face 3	Setting (bar)	0.032 bar
	Serial number	343.12

WORKING TEMPERATURE DEPENDS ON O'RING MATERIAL		
MATERIAL	T° min (°C)	T° max (°C)
FEP/Silicone	-40°C	+200°C
FKM Viton	-15°C	+200°C
FEP/Viton	-20°C	+200°C
Foodstuff nitrile	-30°C	+120°C
PFA/Silicone	-40°C	+250°C

