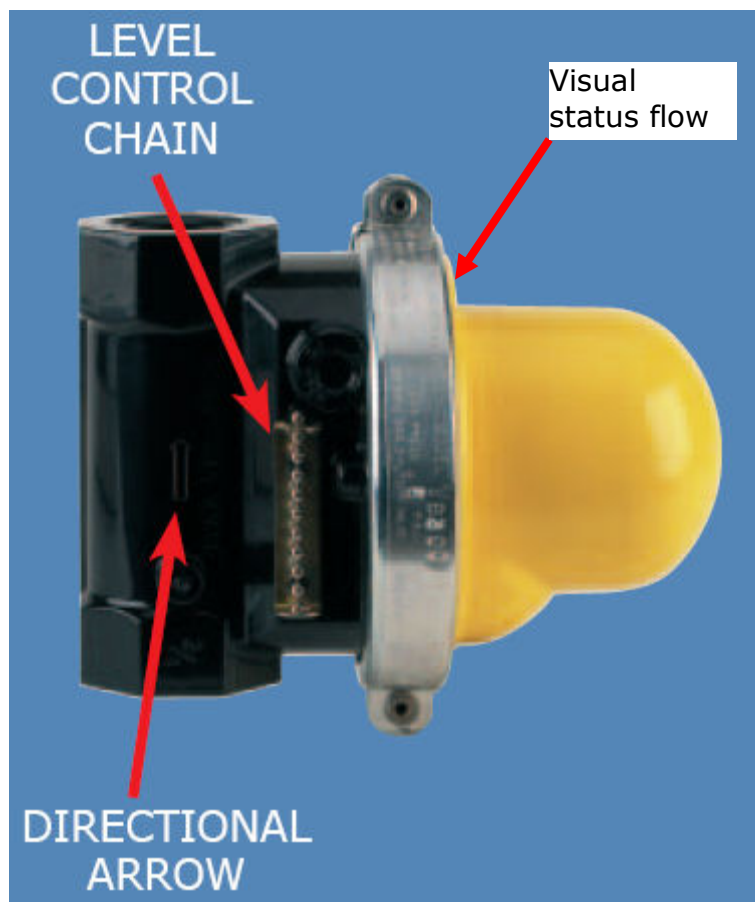
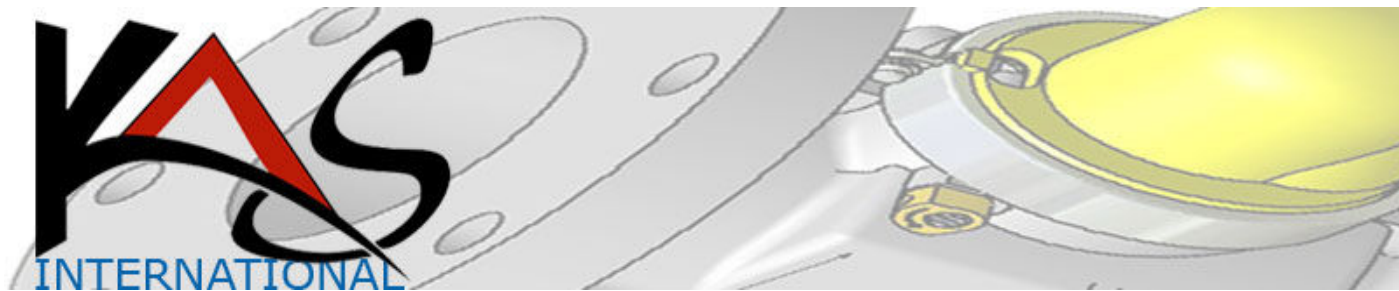


Model Series Vertical Threaded Type Valve Bottom in flow Specification/Installation Sheet



These valves are earthquake sensitive gas shut-off valves. They are intended to close in the event of an earthquake to prevent gas flow into a structure where earthquake damage may have occurred. The valve reduces the potential for fire or explosion due to the release of natural gas into a structure where gas lines, gas fixtures, or gas appliances.

These valves do not use any source of internal or external electrical power. They are designed to remain closed until manually reset. The valves are intended to be mounted in the gas line upstream or downstream of the gas-line pressure regulator and gas meter outside the structure. These valves do not replace the manual upstream shut-off valves provided in the gas service line.



The valve consists of a swing check valve arrangement with an acceleration-sensitive triggering mechanism. The trip mechanism consists of a steel ball resting on a tapered cup-shaped support. The horizontal motion of an earthquake causes the ball to move from the center of the support. This allows the balls mass to act upon the movable pipe of the trip mechanism, activating the valve and initiating closure. Springs assist the valve- flapper to close and gas pressure assists in holding the valve disc in the closed position. The trip mechanism is factory set and sealed. A sight glass is provided so that the Open or Closed indicator can be seen, and the trip mechanism status of the valve can be easily determined.

The main gas flow should be shut off before installation the valve.

Installation must be done to the local requirements of the local building codes and must be performed by personnel having the qualifications required by law to install and service natural gas lines and equipment. Keep in mind that before installation the main gas valve must be shut off.

Maintenance and Verification of Valve Operation:

Unless otherwise specified by code, it is recommended that the valve being inspected at least once a year to insure that the valve is level and has not been damaged. If the valve is found to be out of level or appears damaged, the customer should call a qualified gas service person for repair.

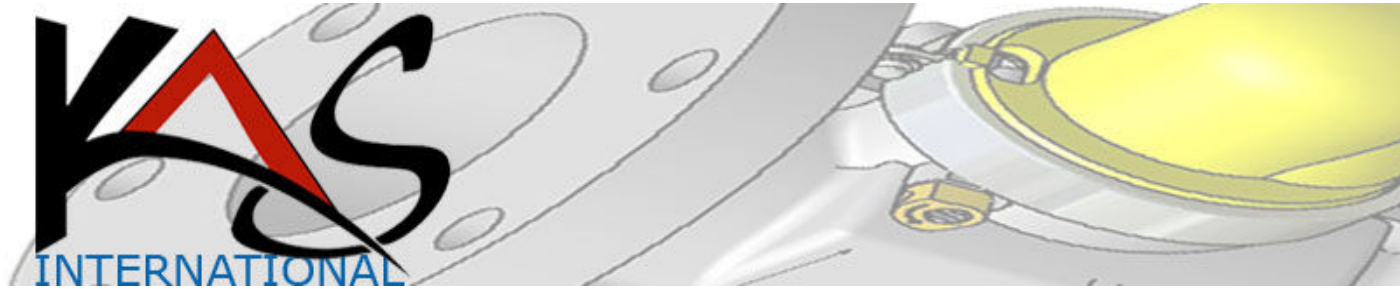
Warning: Read and understand the following section completely before attempting to reset valve:

Opening Resetting the Valve:

When the valve is closed a Red Bar will be visible through the window in the visual valve position indicator located on the bottom cover of the valve. To open the valve first verify, that the main gas valve is closed, then gently rotate the Reset Cam in the direction indicated by the "to open" arrow, which opens the pressure release poppet in the main valve disc. Hold in this position until pressure equalizes across the main valve disc, then with very little turning effort continue rotating the Reset Cam until a Green Bar is visible through the window. Release the turning effort. If reset has occurred the "Reset Shaft" will return to its original position and the Green Bar will remain visible trough the window. The valve is now open, and the acceleration trigger mechanism set to respond to a seismic disturbance. The main gas shut off valve can be opened now.

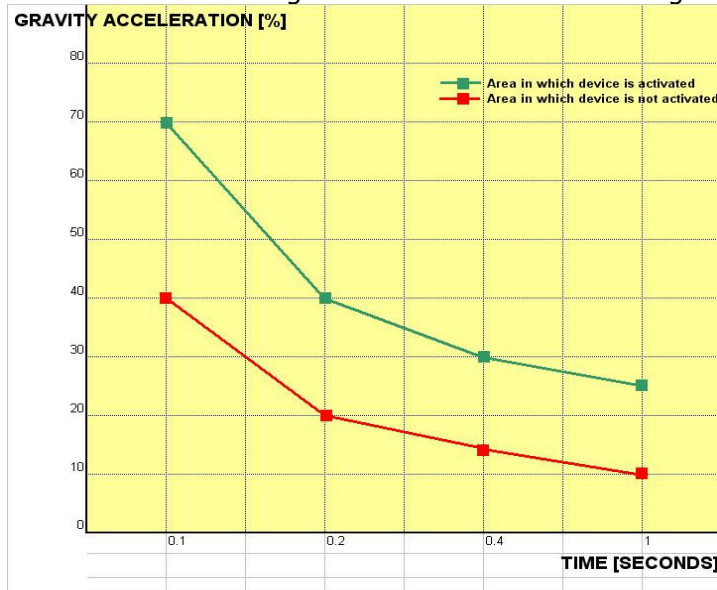
Attention:

If the reset shaft does not return to its original position, or the valve remains closed and will not reset, the gas supply must be shut off before resetting.

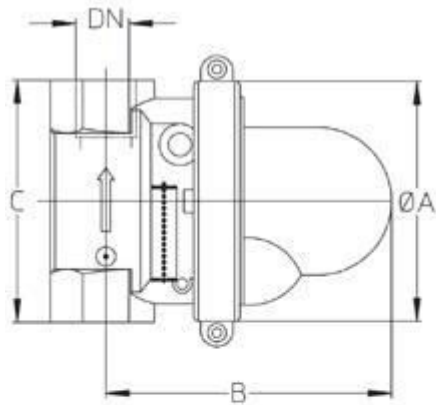


Activation of the valve:

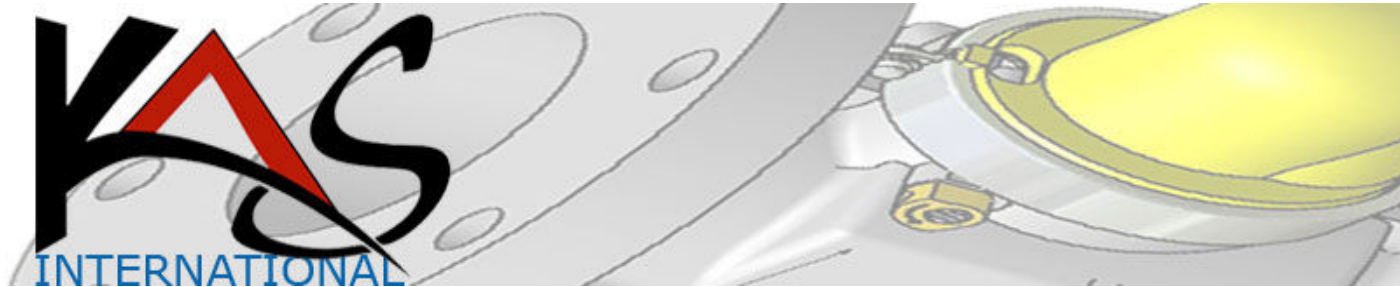
There is no specific value (magnitude) for the activation of a valve. The valve operates (close) under specific condition that are in combination of frequency and time. Please see figure below. The valve can close with high magnitude and short time, but can also activate with low magnitude if maintained for long time.



Availability of the valves in threaded type horizontal and vertical:



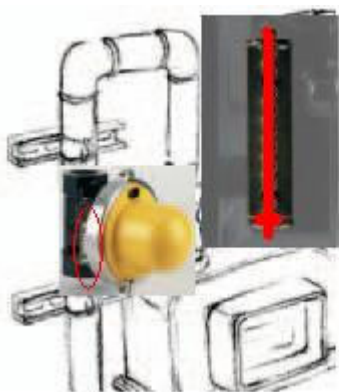
DN	3/4"	1"	1-1/4"	1-1/2"	2"	3"	4"
C [mm]	102	102	133	133	143	206	213
B [mm]	121	121	127	127	133	143	159
Ø A [mm]	104	104	104	104	104	126	152



INSTALLATION:

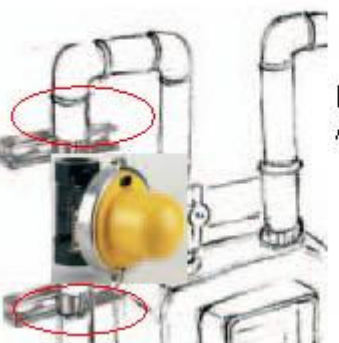
Installation for vertical valves threaded type valves.

This installation guide is utilized for vertical installation with the gas flow inlet at the bottom. Flow direction is indicated by the arrow forged on the valve body. Please be alert of the following:



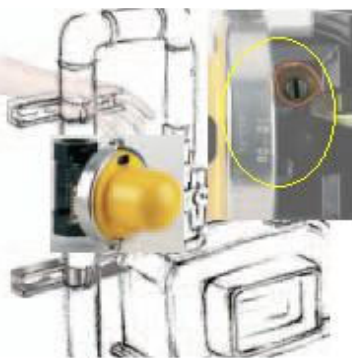
Install using the appropriate level control chain, which should be centered on the check ring when the valve is in the most favorable position

LEVEL
CONTROL
CHAIN



DIRECTIONAL
ARROW

Fix the valve firmly with a fixing bracket to keep the valve from triggering accidentally



Install the valve in such a way that the manual resetting mechanism is easily accessible

MANUAL
RESETTING

