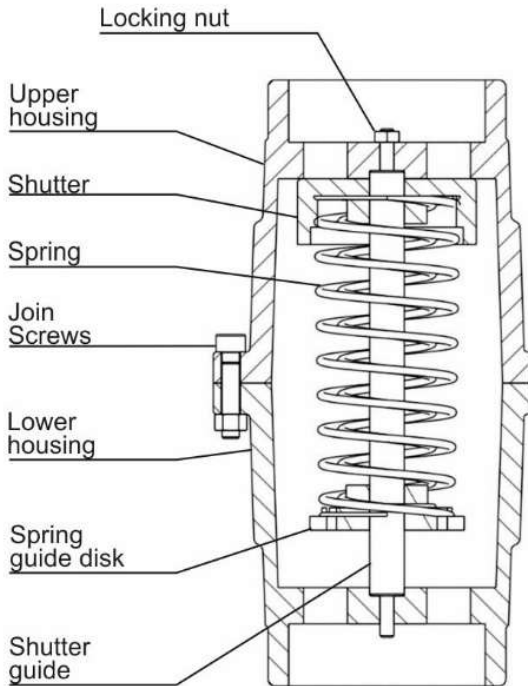


## BXSV – Vacuum and Pressure Relief Valve



BLSV valves are used to limit pressure or vacuum on lateral channel blowers. When the pressure or vacuum is reached the valve opens and, connecting the internal part of blower to atmosphere, prevents to overcome the blower design limit. The discharge connection may be, according to the plant design, opened to atmosphere directly or channeled to a discharge pipe.

### RUNNING PRINCIPLES

The fluid pressured is opposed by the force effected on shutter by the spring. This starts to open when fluid pressure overcomes the spring force reaching the fully open position. And when the pressure goes below the set pressure the valve closes.

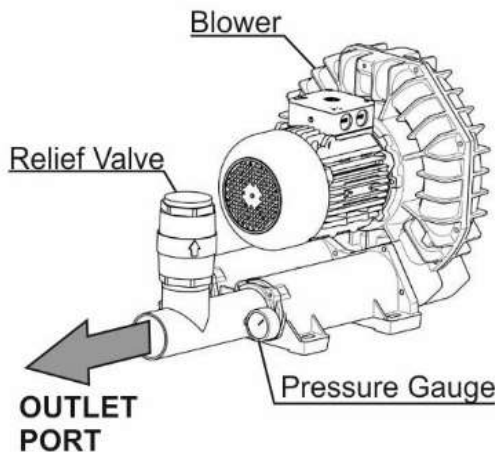
### INTENDED USE

The BLSV valves are suitable:

- for industrial applications,
- operating range of differential pressure (Dp) is between 100 mbar up to 600 mbar,
- handling air and gas that is not explosive, not inflammable, not poisonous, and not aggressive,

Gas inlet temperature must be in the range of -15° to +160°C.

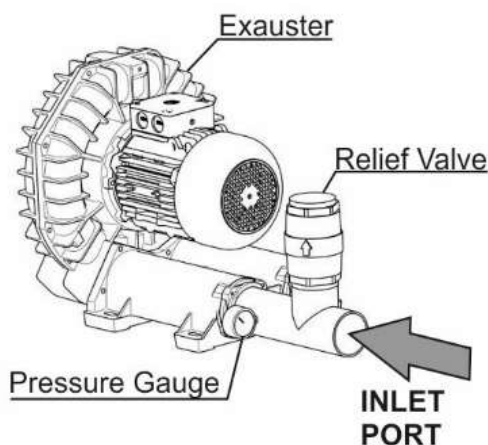
### INSTALLATION SKETCH AS VACUUM RELIEF VALVE AND SETTING-UP



#### Installation and setting-up at allowed pressure level

1. Remove locking nut from upper housing and place it on the lower housing. **Do not tighten**,
2. Position valve on the discharge by-pass and connect a pressure gauge as close as possible to the blower outlet,
3. Relieve spring tension by backing on shutter guide with the key,
4. Turn on blower. Induce highest attainable pressure by throttling air discharge downstream of the valve (normally reducing throttle to fully-closed),
5. Unscrew shutter guide until maximum allowable pressure level is reached,
6. Tighten locking nut,
7. Open discharge line.

### INSTALLATION SKETCH AS VACUUM RELIEF VALVE AND SETTING-UP



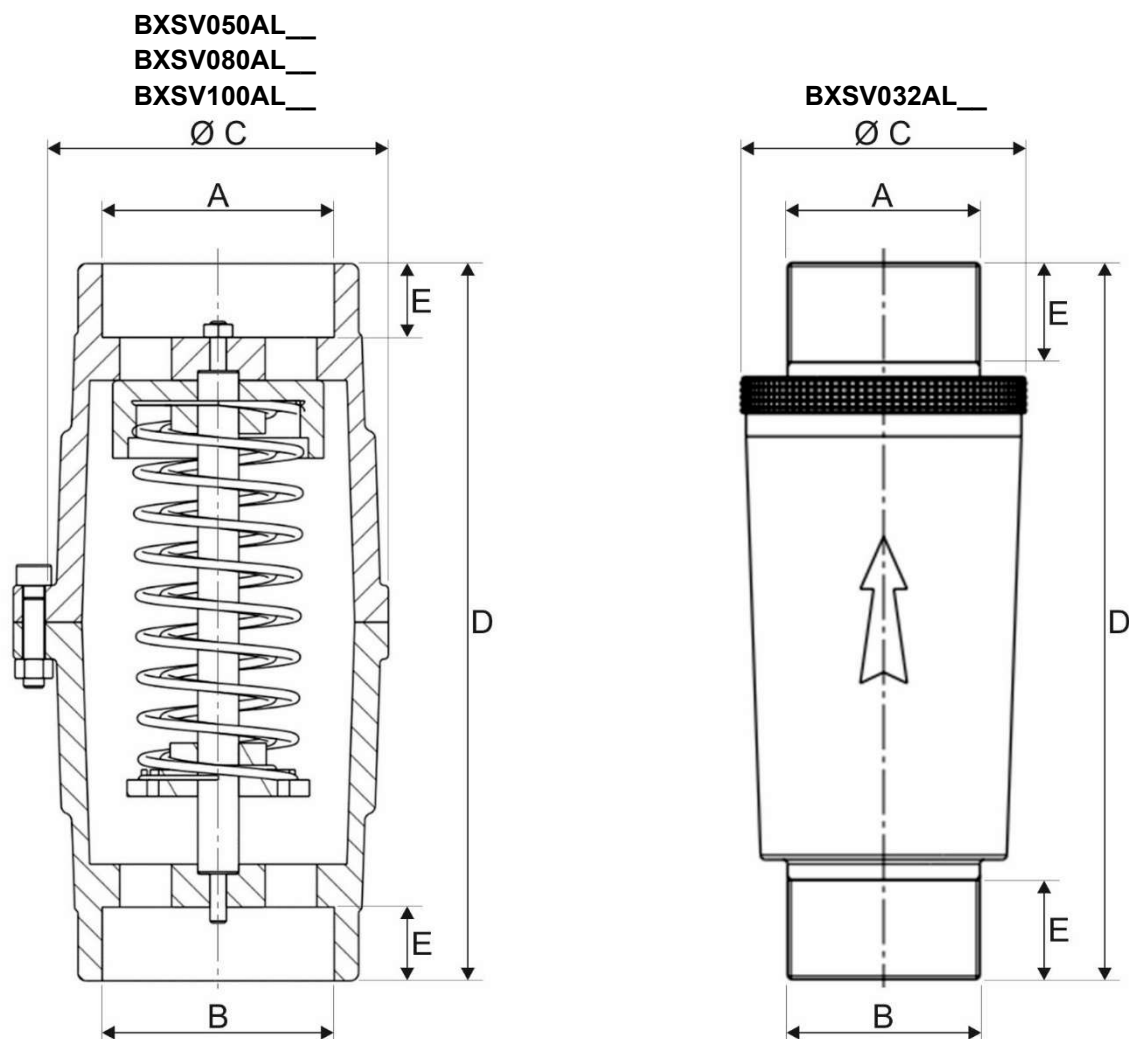
#### Installation and setting-up at allowed vacuum level

1. Position valve on the suction by-pass and connect a vacuum gauge as close as possible to the exhauster inlet,
2. Unscrew locking nut,
3. Relieve spring tension by backing off on shutter guide with the key,
4. Turn on exhauster. Induce highest attainable vacuum by throttling air intake upstream relief valve (normally reducing throttle to fully-closed),
5. Screw shutter guide until maximum allowable vacuum level is reached,
6. Tighten locking nut,
7. Open suction line.

# BLOWERS ACCESSORIES

## BXSV – Vacuum and Pressure Relief Valve

### OVERALL DIMENSIONS



CODE	A – B	$\varnothing C$ [mm]	D [mm]	E [mm]
BXSV032AL 03 06	G 1¼ - M	82	155	20
BXSV050AL 13 36	G 2 - F	105	180	12
BXSV080AL 12 24 46	G 3 - F	140	200	15
BXSV100AL 12 24 46	G 4 - F	165	210	20