

PRESSURE RELIEF VALVES

Model 301 & 302 Series



FEATURES

- Factory pre-set pressure for automatic venting and resealing.
- All brass and stainless steel construction for use in extreme outdoor conditions.
- Viton 'O' ring for long trouble free service.
- Stainless steel pull ring for manual bleeding on all models.
- Device meet or exceed REA and ANSI standards for distribution transformers.
- Oil and weather resistant polypropylene/vinyl cap on indicator models.
- Bug shields to prevent ingress of dirt, insects on all models.

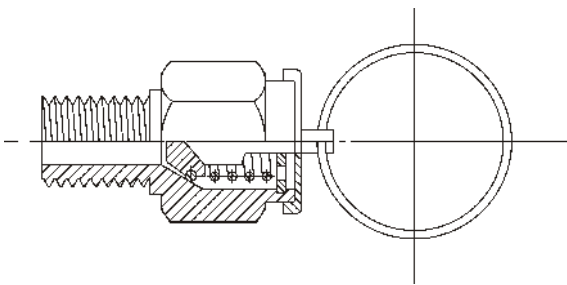
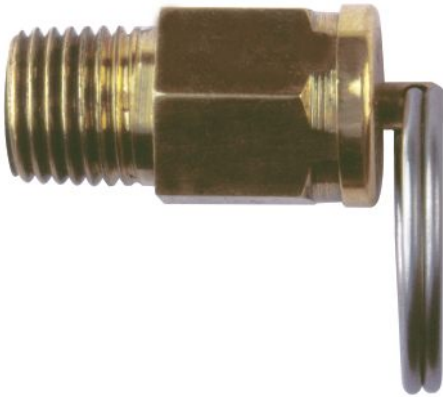
VIAT

INSTRUMENTS

CA301-2R1



RELIEVES 35 SCFM AT 15 PSIG - 1/4" NPT MOUNTING THREAD

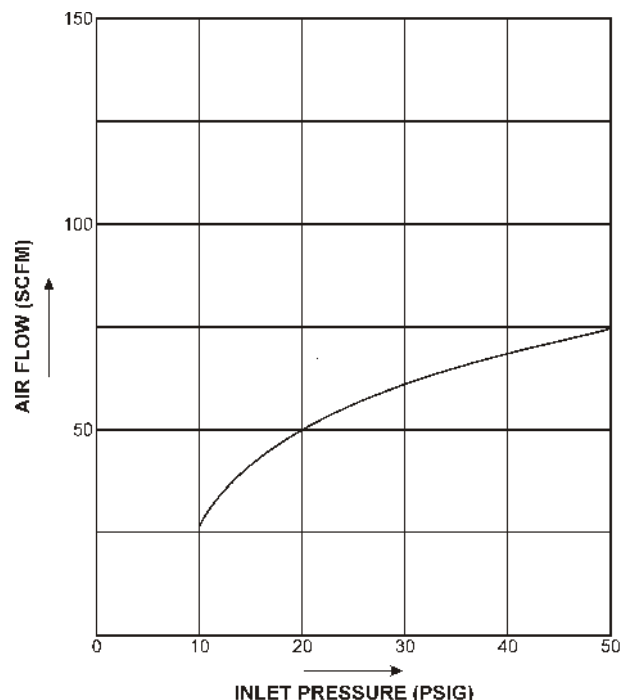


- Non-indicating model for all purpose use.
- Cracking pressure 10 psig \pm 2.
Reseals at 8 psig \pm 2.
- Available in standard 5, 10 and 15 psig operating pressure.
- Meets or exceeds REA and ANSI standards for distribution transformers.
- Brass body and parts machined from extruded rods.
- Heat treated spring prevents fatigue failure due to time/temperature/repeated operations.
- Flow at 15 psig exceeds 35 SCFM.
- Threads other than 1/4 NPT also available.

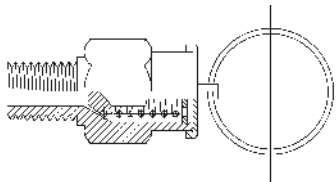
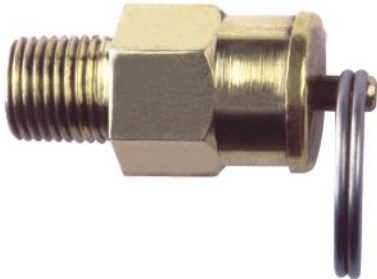
MODEL	PRESSURE	THREAD
301-010-01N	10 PSIG	1/4" NPT
301-010-02N	5 PSIG	1/4" NPT
301-010-03N	15 PSIG	1/4" NPT

All Flow rates given are based upon valves with nominal operating pressure of 10 psig and air flow rate corrected for air pressure of 14.7 psi and air temperature of 21.1°C.

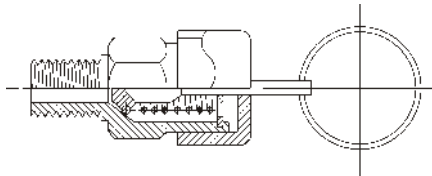
FLOW CURVE CHART



RELIEVES 50 SCFM AT 15 PSIG - 1/4" AND 1/2" NPT MOUNTING THREAD

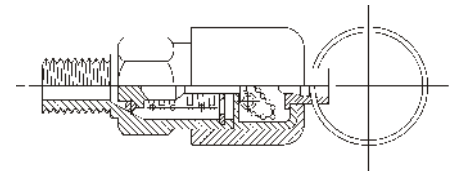


MODEL 302-010-01N
Non-indicating. 1/4" NPT



MODEL 302-020-01I

Black cap moves forward along the shaft upon automatic relief, revealing a red signal band.



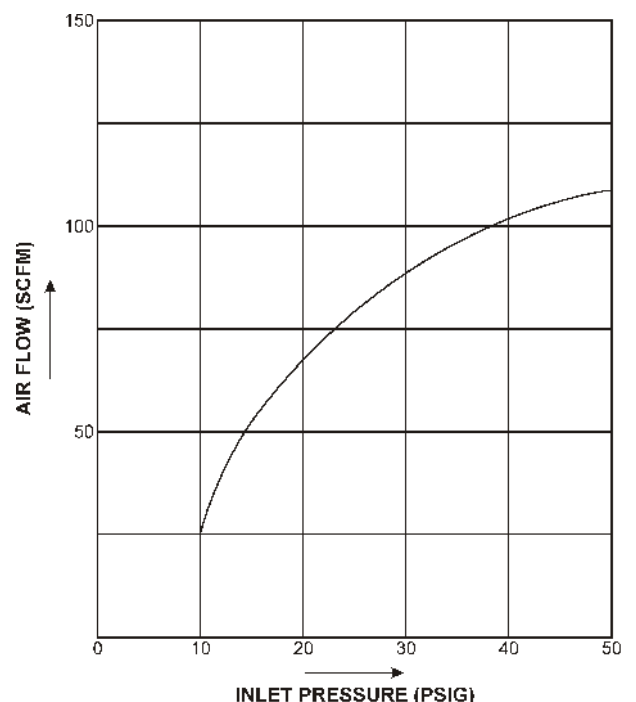
MODEL 302-030-01I

White cap hangs down after automatic relief, revealing a red disc.

MODEL 302-010-02N
Non-indicating. 1/2" NPT

FLOW CURVE CHART

- Available in both indicating and non-indicating models.
- Cracking pressure 10 psig \pm 2. Reseals at 8 psig \pm 2.
- Flow at 15 psig exceeds 50 SCFM
- Indicator models have highly visible permanent red band/disc.
- Solid machined brass body and parts.
- Heat treated spring prevents fatigue failure due to time/temperature/repeated operations.
- Threads other than 1/4 NPT also available.



CONSTRUCTION

The Standard 301 and 302 series pressure relief valves comprise of single pieces brass body, housing the complete assembly.

The Stainless Steel spring is factory selected to the desired rating and compressed to a pre-determined level. One end of the spring being fixed, the other end forces the brass poppet against the body. A Viton 'O' ring between the poppet and body ensures leak proof sealing.

The valve also features a cap which covers the exhaust port to prevent ingress of insects, dirt or external elements. A stainless steel pull ring allows for manual operation of the valve.

INSTALLATION & MAINTENANCE

These valves have standard 1/4" NPT thread with a layer of teflon tape to ensure leak proof installation. However, valves with other threads can also be supplied.

Under the standard operating conditions, these valves do not require any maintenance.

OPERATION

When the gas pressure in the tank exceeds the specified limit, it forces the spring in the valve to compress, thus breaking the seal between the 'O' ring and body.

The gas escapes through this opening, releasing the pressure in the tank.

As soon as the pressure falls below the specified limit, the compressed spring forces the poppet with 'O' ring to reseal with the body.

Due to our policy of continuous product improvement, dimensions and designs are subject to change.



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