

PRESSURE RELIEF DEVICE

Size 150mm (6") | Direction Shroud - Optional



305 with Plug-in Switch



305 with Terminal Box



305 with Shroud

FEATURES

- A Gas bleed system standard in all models.
- An additional test arm provided to check operation of switch.
- Pressure die cast, vacuum impregnated and pure polyester powder coated mounting flange.
- Springs made out of oil hardened and tempered spring steel wire to provide uniform loading and to prevent fatigue failure.
- Springs specially treated and coated to prevent rust and corrosion due to harsh environment.
- Terminal box or Plug-in type switch with condensation preventing vent.
- Option for up to 2 SPST/SPDT (NO/NC or CO) switches.
- Separate variant for high DC Current.
- A bright yellow semaphore can be provided which provides highly visual indication of PRD operation.
- Low temperature / CX options.
- Full stainless steel model for harsh/underground environment also available.
- Additional optional shroud with full 360° rotation for complete flexibility in directing oil spray.
- IEC/ANSI compliant.

VIAT

INSTRUMENTS

VI-C03A(R1)

**A House of
Transformer
Accessories**

Technical Specifications	
Mechanical:	
Recommended Tank Opening:	The port opening on the tank should be at least 5.25" (133mm).
Electrical:	
Dielectric Isolation:	<i>Between circuits and earth: 2kV RMS AC for 1 minute. Between contacts in open position: 1kV RMS AC for 1 minute.</i>
Switch Type:	SPST or SPDT.
Number of Switches:	Upto 2 switches.
Connection Type:	Terminal box / plug in connection with connector and cable.
Switch Rating:	For Model : 305XX02, XX03, XX04, XX06 & XX09 : 15A, 125/250/480V AC, 0.50A 125V DC 0.25A 250V DC for non-inductive load. For Model : 305XX07, XX08, XX10 & XX11 : 10A, 125/250V AC / 3A 125V DC / 0.15A, 250V DC For Model : 305XX21, XX22 & XX23 : 10A, 250V AC / 3A 30V AC
Environmental:	
Ambient Operating Temperature:	In Oil : -25°C to 100°C In Air : -40°C to 80°C
Switch Enclosure:	IP65
Switch Operating Temperature:	-25°C to 125°C

WORKING:

When pressure in the tank rises, the total force on the area defined by the top gasket on the operating disc also increases. As soon as this force exceeds the load applied by the springs, the operating disc moves slightly upwards. This exposes the transformer pressure to a greater area corresponding to the diameter of side gasket, resulting in sudden increase of force. The disc lifts instantaneously and vents out the excess pressure in the transformer. When the pressure falls to allowable values, the spring forces the disc back to its original position.

The device has rugged construction and does not require maintenance. The operating pressure is factory pre-set and cannot be changed at site. The compression screws on the cover can never be removed, doing so might cause extreme damage to both personnel and equipment.

APPLICATION:

These Pressure Relief Devices are recommended to be used on all sizes of transformers ranging from distribution transformers to large power transformers. For very large power transformers, it is usual to use multiple devices. There is no general formula or standard to link the size of the device to the size of the tank. This parameter is decided by the transformer designer or as agreed upon with the end user. As a general practice, one device can be used for every 38,000 litres (10,000 US gallons) of cooling liquid.

Please contact us for ordering form and any further details.

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



VIAT INSTRUMENTS PVT. LTD.

2701 to 2704, Shilpangan Phase-II, Block LB-1
Sector-III, Salt Lake, Kolkata - 700 098, INDIA
Phones : (91-33) 9903805104, 23352925 ● Fax : (91-33) 23352926
E-mail : viatin@viatin.com ● Website : www.viatin.com

VIAT AMERICA, INC.

Tel: 949-679-0950
Fax: 949-417-1358
E-mail : sales@viatamerica.com
Website : www.viatamerica.com