

PRESSURE RELIEF VALVE

MODEL : T-2

1.0 APPLICATION :

The Pressure Relief Valve (PRV) is designed as a safety device to be used on an oil filled transformer or any similar electrical equipments. When pressure in tank rises beyond predetermined safe limit, the PRV operates & performs following functions.

2.0 FEATURES :

- All Stainless-Steel body & hardware for extreme outdoor conditions.
- Robust design and proven on site reliability.
- S.S spring designed & calibrated for accurate operations.
- Suitable for distribution & traction transformers.

3.0 CONSTRUCTION AND WORKING :

For mounting PRV has four holes of 12 diameter on 127 PCD. For the operation, a port of about 50 mm is provided. The port is sealed by a spring loaded stainless steel diaphragm. The diaphragm rests on rubber ring, thereby keeping the port sealed during normal pressure in the tank.

As soon as the pressure in the tank rises above predetermined safe limit, the diaphragm gets lifted from its seat thereby opening the port. The diaphragm seals the port again, after the pressure in the tank reduces to safe limit.

4.0 TESTS :

Each PRV is tested for following routine tests,

- 3.1 Operating pressure test at specified value with compressed air.
- 3.2 Leakage test, at static head of 75% value of specified operating pressure, with transformer oil at room temperature for 24 hours.
- 3.3 Any other test as specified by customer.

A test certificate is issued with each batch of PRV. All above tests are included in the test certificate.

5.0 INSTALLATION :

For installation, user has to provide a mounting pad as per Fig.2 by welding it on top cover of the tank. While installing bolts should be tightened evenly.

6.0 FAULTS AND REMEDIES:

The PRV has rugged construction and it is not likely to get damaged easily. For breakage or damage of parts like diaphragm or base, the PRV should returned to sukrut as these faults/ damages can not be repaired at site.

For leakage of oil through diaphragm also the PRV will have to be returned to us as this fault/damage can not be repaired at site. Serial number of PRV must be informed when any kind of product service communication is made.

7.0 ROUTINE MAINTENANCE:

Periodically, every six months PRV should be tested by air to check its satisfactory working.



8.0 SPECIFICATIONS:

- | | |
|-------------------------|--|
| 6.1 Liquid in tank | : Transformer oil. |
| 6.4 Operating pressure | : 0.35 to 0.84 kg/cm ²
(Order any one value) |
| 6.5 Operating tolerance | : ±0.10 kg/cm ² |
| 6.6 Operating time | : Instantaneous. |
| 6.7 Switch resetting | : Automatic. |
| 6.8 Operating Temp. | : -10 ^o to +115 ^o C of liquid in tank. |
| 6.9 Environment | : Indoor or Outdoor. |
| 7.0 Port operating | : Nominal Ø 50mm |

9.0 HOW TO ORDER:

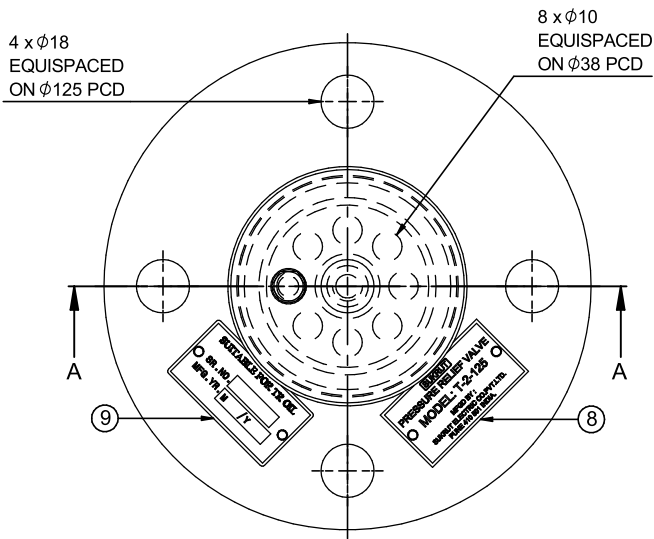
To make an offer, we need to know the operating pressure (Any one value).

Eg: PRV-T-3-LSM with 0.35 kg/cm²

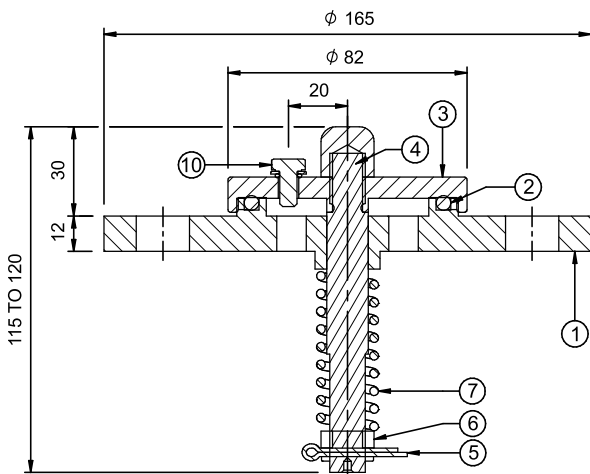


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FIG 1. PRV-T-2

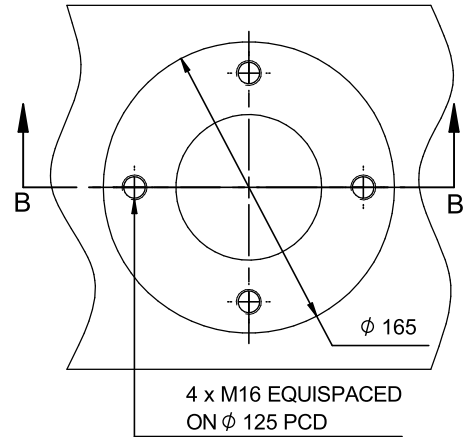


TOP VIEW

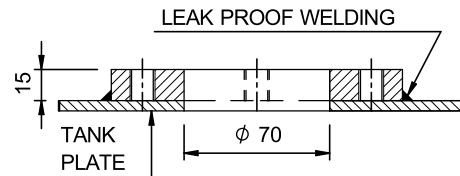


FRONT VIEW

FIG 2. MOUNTING PAD



TOP VIEW



SECTION B-B

NOTE: MOUNTING PAD IS NOT SUPPLIED BY SUKRUT.

PART LIST FOR FIG. 1

SR NO.	DESCRIPTION	MATERIAL	QTY.
1.	BASE WITH MOUNTING HOLES	S.S	1
2.	O-RING	S.S	1
3.	DIAPHRAGM	M.S	1
4.	ROD FOR SPRING	M.S	1
5.	SPLIT PIN	S.S	1
6.	CASTEL NUT	—	1
7.	SPRING	M.S	1
8.	MODEL PLATE	AL.	1
9.	SR.NO. PLATE	S.S	1
10.	AIR VENT BOLT	M.S	1

GENERAL NOTES :

1. The operating pressure of PRV is not adjustable at site. Hence care should be taken at the time of specifying operating pressure.
2. The value of operating pressure should be worked out carefully considering strength of tank and existing static head of oil on PRV
3. It is important to handle PRV cautiously. Particles or small fragments may enter the PRV's tank side & may get caught underneath the diaphragm's spring-loaded mechanism. Due to which even when the tank's pressure is normal, oil will continue to flow.



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