



RAJSHI
ENGINEERS

DASHBOARD

ABOUT US

Our Story :

Rajhi Engineers was founded in 1977 by Mr.R.M. Loya who had a passion for engineering and a vision to create a company that would provide high-quality products and services to the energy sector.

The company started out small, but it quickly grew to become a leading manufacturer of pressure relief valves and other transformer parts. Rajhi Engineers always believes in the motto of innovation, and the company has been at the forefront of developing new technologies for the energy sector.

45 Yr



ISO - 9001:2015



Our Products :

Rajhi Engineers offers a wide range of pressure relief valves, nitrogen filling breathers, and other transformer parts. Our products are used in a wide range of applications, including power generation, transmission, and distribution.

We are committed to providing our customers with high-quality products that meet their specific needs. We have a team of experienced engineers who are dedicated to designing and manufacturing our products to the highest standards.



Quality

With over 45 years of experience RAJHI ENGINEERS is a leading manufacturer of valves and fittings for applications like Pressure Relief Valves, Tank Valves and other transformer parts.

We are committed to providing our customers with high-quality products and services, with the help of a team of experienced engineers who are dedicated to designing and manufacturing our products to the highest standards. Our sales and technical support teams are available to answer your questions and help you find the right products for your needs.

Rajhi Engineers is proud to be a part of the energy sector and to help keep our customers' power networks safe and reliable. Our manufacturing facility is ISO 9001 certified and giving us the confidence to be one of the best in our sector.



Team

Founder : Rajhi Engineers
S.B.H.L. Industrial Estate, Auxiliary Area,
D.S.H.L. Khadki, Jalandhar, Punjab, India.
Phone: 294529

CEO : Contact no.: +91-9435133333 / 010-2770000

CMO : Email: info@rajhiengineers.com

Member : Member :

Contact Us

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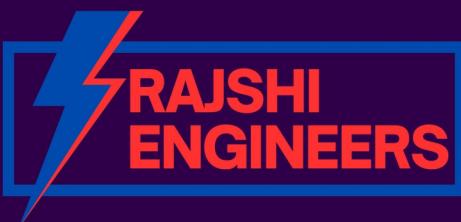
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Our Services :

In addition to our products, we also offer a range of services to our customers. These services include:

- **Design and engineering services** : We can help you design and engineer various transformer parts like Pressure Relief Valve, Oil Level Indicator and many others customized to meet your specific needs.
- **Manufacturing and testing services** : We manufacture various parts for transformers with both standard designs and customized needs along with testing them in our testing lab.
- **After-sales support** : We offer a comprehensive after-sales support program to help you with any problems you may encounter with your pressure relief valves and other transformer parts.



ISO -
9001:2015



Our Commitment :

Rajshi Engineers is committed to providing our customers with the best possible products and services. We are dedicated to innovation, quality, and customer satisfaction. If you are looking for a reliable and experienced supplier of Pressure Relief Valve, Oil Level Indicator and other transformer parts, then we can definitely be someone you can count on.



Our Products :

Rajshi Engineers offers a wide range of pressure relief valves, nitrogen filling breathers, and other transformer parts. Our products are used in a wide range of applications, including power generation, transmission, and distribution.

We are committed to providing our customers with high-quality products that meet their specific needs. We have a team of experienced engineers who are dedicated to designing and manufacturing our products to the highest standards.



PRESSURE RELIEF VALVE :

Application :

Pressure Relief Valve (P.R.V.) is a safety device to be used in Transformer, Pressure Tanks & Pressure Lines for indoor & outdoor application. Suitable for repeated operation as compared to Conventional Explosion Vent which is for single use.

Working :

The release Port is sealed by a Stainless-Steel Diaphragm resting on an "O" Ring. Heavy-Duty Spring Set keeps the port closed in normal condition. As soon as the pressure exceeds the pre determined safe limit due to any reason like change in temperature, formation of vapor etc. The diaphragm gets lifted from the seat. This exposes the tank pressure to a greater area. Resulting to sudden increase of force. Thus instantaneously opening of release port and allowing vapor, gas & liquid to flow out of tank. Resulting to fall of pressure. The diaphragm restores its normal position as soon as pressure drops below the set limit and is ready for second jump. Spring retainer prevents the dislocation of spring during repeated operation. The lift of diaphragm also operates the Limit Switch (Double Pole/ Double Throw type) & Visual Indicator (Flag) by help of Rod. Engineered for rugged use & long life each P.R.V. is checked for its operational condition individually. It is important to note that depending upon the tank fluid different "O" Ring material is suggested.

Note: -Our standard product feature is

- 1). PRV with Nitrile Rubber Gasket.
- 2). Limit Switch confirms to weather protection IP-67 and is with $\frac{3}{4}$ " 16 T.P.I. (B.S.C.) PVC Cable Gland.



Mounting :

Mounting details of different Model/ Size are as follows :

| Model | Appx. Port Size | No. of Mounting Holes | Bolt Size / Hole Size | P.C.D |
|-------|-----------------|-----------------------|-----------------------|--------|
| DP-1 | 1" | 4 | M10 / 12 mm. Ø | 85 mm |
| DP-3 | 3" | 4 | M10 / 12 mm. Ø | 127 mm |
| DP-6 | 6" | 6 | M10 / 14 mm. Ø | 235 mm |



DP-1EF#



DP-3EF#



DP-6EF#



DP-3EF#S

Different Models available are :

| Features | Model |
|--|-------------|
| Without Electrical Contact & Visual Indicator | DP-Ø |
| With Electrical Contact & Visual Indicator | DP-ØEF# |
| With Shroud/ Oil Collection Cap | DP-ØEF#S |
| With Plug and Socket Type Limit Switch Connection | DP- ØEF#P |
| With Shroud /Oil Collection Cap & Plug and Socket Connection | DP- ØEF#SP |
| With Shroud /Oil Collection Cap & Plug and Socket Connection & Cable | DP- ØEF#SPC |

Where : Ø - Size of Release Port i.e., 6";3";1"

- No. of Electrical Contacts [(1 for 1 N.O. & 1 N.C.) & (2 for 2 N.O. & 2 N.C.)]

S - With Shroud / Oil Collection Cap

P – Number of Pins

C – Number of Cable Core

Standard Operating :

All the above models are available in the following standard pressure:

| | |
|------------------------------|----------------|
| 0.35±0.07 Kg / cm sq. | 5±1 psi |
| 0.42±0.07 Kg / cm sq. | 6±1 psi |
| 0.49±0.07 Kg / cm sq. | 7±1 psi |
| 0.56±0.07 Kg / cm sq. | 8±1 psi |
| 0.70±0.07 Kg / cm sq. | 10±1 psi |
| 0.84±0.07 Kg / cm sq. | 12±1 psi |
| 1.40±0.07 Kg /cm sq. | 20±1 psi |

Special Add-ons :

- A) These models are also available with VITON Rubber Gasket, suitable for Silicone Oil.
- B) Bleed Screw for venting air or gas bubbles can be provided if asked.
- C) "C" Copper Core Armored Cable of specified length and specification can be provided as required by customer.
- D) PRV at different operating pressure (higher/lower) can be supplied as per your request.

Routine Test :

Test is carried on each P.R.V. as follows and test certificate furnished along with supply.

- a) Operating Pressure individually.
- b) Contact / Operation of Switch & Flag is checked in Before & After Valve Operation condition.
- c) Leakage Test at 75% of Operating Pressure for 12 hr is done.
- d) Dielectric Test of 2 K.V. for 1 minute.

Type Test :

Our P.R.V. qualifies Environmental Test IP-67 Test condition for practical adaptability in real life condition and rugged use.

PRESSURE RELIEF VALVE :

Application :

Pressure Relief Valve (P.R.V.) is a safety device to be used in Transformer, Pressure Tanks & Pressure Lines for indoor & outdoor application. Suitable for repeated operation as compared to Conventional Explosion Vent which is for single use. It is compact, highly reliable and particularly designed to be used on O.L.T.C., Transformers, & similar equipment's / tank with non-corrosive liquid.

Features :

- Spring Safety Valve completely made of Brass /Aluminium, compact, highly reliable and particularly useful for use in transformer & tanks containing non corrosive liquid even in extreme outdoor condition
- Reliable Operating Pressure from 20 to 100 KPa. (0.20 to 1.00 kg/cm sq.)
- Positive Resealing Pressure. • Operating Temperature: 0 to 100° C (of tank liquid).
- Sealing is with Nitrile Rubber "O" Ring.
- Valve Resetting Automatic. Suitable for repeated use.
- Protective Rain Guard Cap directs the Oil Spillage downwards.
- Flat Mounting Gasket can be provided if required.
- Depending upon nature of Tank Fluid we can supply with Viton Gaskets and "O" Ring.
- PRV at different Cracking Pressure (higher/lower) can be supplied as per your request.
- Normally we supply in Natural Finish. However, if required by customer we can supply with Ni-Cr plated or suitably painted.

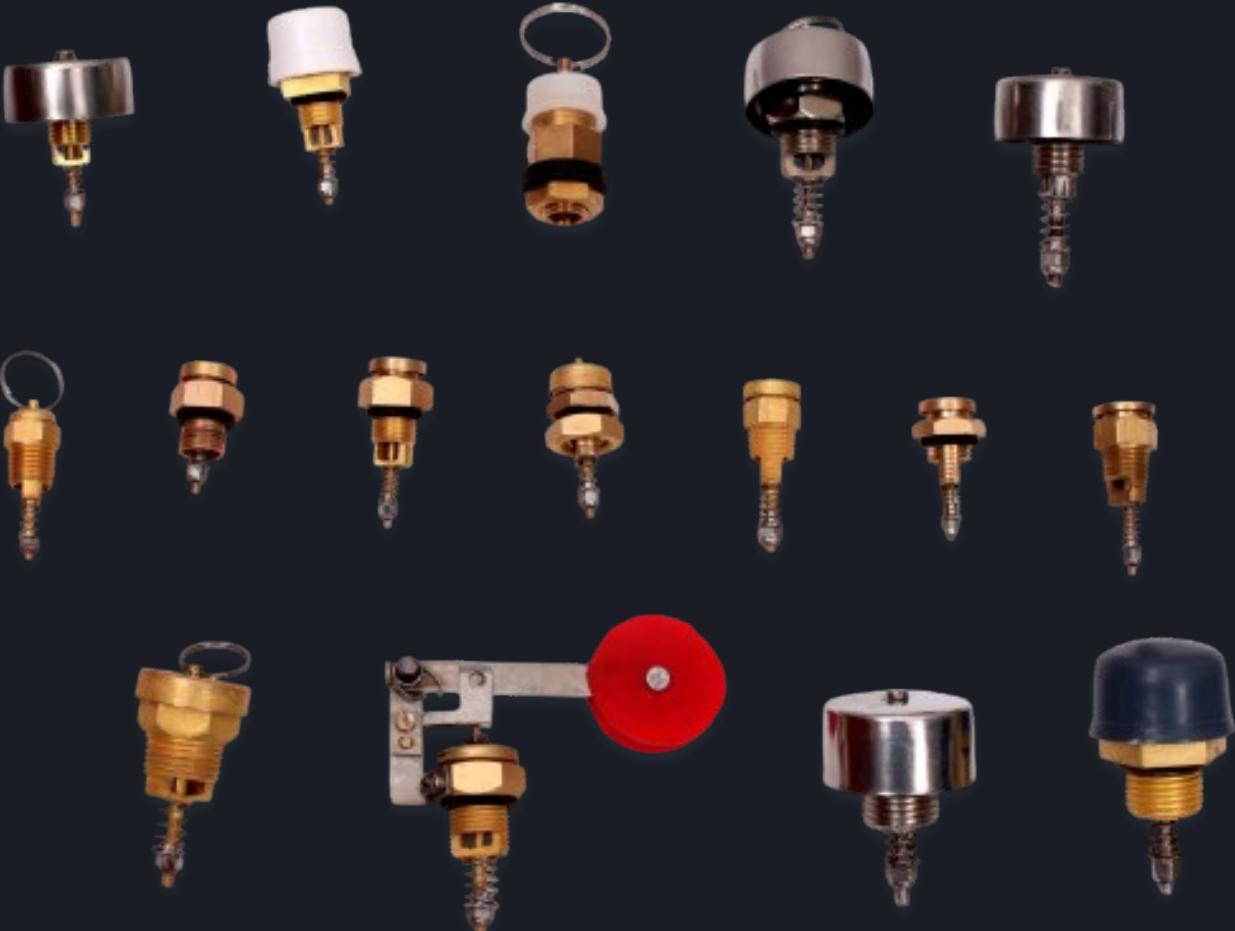
ROUTINE TEST :

Each P.R.V is calibrated & checked for its Cracking Pressure (Opening) by compressed air.

Different Models available are :

Based on mounting there are different varieties:

- Anti-Theft
- Threaded
- Flange

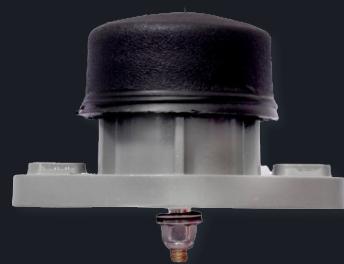


Anti-Theft PRV:

The unique design and mounting make these PRV Anti-Theft



AT-25



AP-25



IP-25SS

| Details | Model | Model |
|---|----------|---------------|
| Material | Aluminum | Cast , Iron |
| Plain | A#-25 | Not Available |
| With Stainless Steel Pull Ring | A#-25R | |
| With Cap (Rain Guard) | A#-25C | IP-25SP |
| With Cap (Rain Guard) and Stainless-Steel Pull Ring | A#-25CR | |
| With Stainless Steel Cap Riveted | A#-25SS | IP-25SS |

Where : # -Mounting (T-Thread mounted & P-Plate Mounted) C- Cap (P- Plastic S- Stainless Steel)

Threaded PRV :

Note :

Each of these models have the following features :

- These can be used as an Oil Filling Cap.
- Mounting position preferably at the tank cover or topside is to be provided with leak proof welded suitably threaded boss having matching threads and tightened by help of Teflon Tape / Sealing Liquid.

Other Details :

These are available in two different sizes

1). Small Size PRV

2). Medium Size PRV

Threaded Small size PRV :

These are available only in brass.

| Thread Nomenclature (\emptyset) | | 2 | 3 | 4 |
|---|---------------|-------|-------|-------|
| Size of Mounting Thread | British (B/N) | 1/4 " | 3/8" | 1/2 " |
| | (Metric) | M12 | M16 | M20 |
| Old Model | | TS-04 | TS-03 | TS-04 |
| Passage Area (Appx.) (mm/sq) | | 30 | 70 | 125 |
| Body (A/F) in mm "B" (B.S.P. Thread) | | 18 | 22 | 30 |
| Body (A/F) in mm "N" (N.P.T. Thread) | | 16 | 18 | 24 |
| Body (A/F) in mm "M" (Metric Thread) | | 18 | 24 | 30 |
| Total Length (\pm) 10 mm (Suit to Assembly) | | 40 | 45 | 55 |

**BN2R****BB2****BB2SS****BB2P****BB3SR****BB3F**

| Model Nomenclature | Model | 1/4 " BSP | 3/8" BSP |
|--|--------------|------------------|-----------------|
| Plain | BTØ | BB2 | |
| With Stainless Steel Pull Ring | BTØR | BN2R | |
| With Cap (Rain Guard) | BTØC | BB2P | |
| With Cap (Rain Guard) and Pull Ring | BTØCR | | BB3SR |
| With Cap (Rain Guard) Riveted /Screwed | BTØCS | BB2SS | |
| With Visual Indicator (Flag) | BTØF | | BB3F |

Where :

- T - Type of thread (B - BSP, N – NPT, M- Metric)
- Ø- Thread Nomenclature: For B.S.P. & N.P.T. Thread (2-1/4", 3- 3/8", 4-1/2") For Metric Thread – Thread Size e.g. M12
- C- Cap (Rain Guard) (P- Plastic S- Stainless Steel, B- Brass)

Note : Our all models have option of availability in Natural Finish/ Nickel Plated.

Threaded Medium size PRV:

| Thread Nomenclature (\emptyset) | | 4 | 6 | 8 | 10 |
|---|---------------|-------|-------|-----|-------|
| Size of Mounting Thread | British (B/N) | 1/2 " | 3/4 " | 1" | 11/4" |
| | (Metric) | NA | M26 | M36 | M42 |
| Old Model | | T-05 | T-06 | G-1 | G1.25 |
| Passage Area (Appx.) (mm/sq) | | 125 | 250 | 400 | 800 |
| Body (A/F) in mm "B" (B.S.P. Thread) | | 30 | 36 | 40 | 46 |
| Body (A/F) in mm "N" (N.P.T. Thread) | | 24 | 30 | 36 | 40 |
| Body (A/F) in mm "M" (Metric Thread) | | 30 | 36 | 45 | 56 |
| Total Length (\pm 10 mm (Suit to Assembly) | | 55 | 55 | 55 | 70 |



SB4SS (T-05)



BB6O



BB8P(G-1B)



AB8P(G-1A)



SB8 (G-1S)

| Model Nomenclature | Model | 1/2 " | 3/4 " | 1" |
|--|--------------|--------------|--------------|-------------|
| Plain | # TØ | | | SB8 |
| With Stainless Steel Pull Ring | #TØR | | | |
| With Cap (Rain Guard) | #TØC | | | BB8P / AB8P |
| With Cap (Rain Guard) and Pull Ring | #TØCR | | | |
| With Cap (Rain Guard) Riveted /Screwed | #TØCS | SB4SS | | |
| With Visual Indicator (Flag) | #TØF | | | |
| With Oil Collection Bend | #TØO | | BB6O | |

Where :

- #- Material of the body (A- Aluminium, B-Brass, S-Stainless Steel)
- T - Type of Thread (B - BSP, N – NPT, M- Metric)
- Ø- Thread Nomenclature:
 - For B.S.P. & N.P.T. Thread (6- 3/4", 8- 1", 10-1.25")
 - For Metric Thread – Thread Size e.g. M26
- C- Cap (Rain Guard) (P- Plastic S- Stainless Steel).

Note : Our all models have option of availability in Natural Finish/ Nickel Plated.

Flange PRV :

These PRV are mounted directly on holes provided on Tank



PIP-25S



NAP-25S



CUSTOM MADE

PAP-25P



PIP-32

PIP-38

CP-50 / CNP-2

Other Details:

| Port Diameter Ø | 1" | 1.25" | 1.5" | 1.75" | 2" |
|---|------|-------|------|-------|------------|
| Model "P Ø" | P-25 | P-32 | P-38 | P-40 | P-50 / P-2 |
| Passage Area (Appx.) (mm/sq) | 500 | 800 | 1000 | 1500 | 2000 |
| Number of Holes | 2 | 2 | 2 | 3 | 4 |
| Mounting Hole Diameter | 8 | 8 | 10 | 10 | 12 |
| Total Length (\pm 20% (Suit to Assembly) | 55 | 65 | 80 | 90 | 100 |

| Details Nomenclature | Model |
|--|---------|
| Basic Nomenclature | FMP-Ø |
| With Stainless Steel Pull Ring | FMP-ØR |
| With Cap (Rain Guard) | FMP-ØC |
| With Cap and Stainless-Steel Pull Ring | FMP-ØCR |

Where :

- F - Finish (N- Natural, C -Cr Plated, P-Painted)
- M-Material of the body (A- Aluminium, B-Brass, I-Mild Steel/ Cast Iron, S-Stainless Steel)
- Ø- Port Diameter (mm)
- C- Cap (Rain Guard) (P- Plastic, S-Stainless Steel)
- R-Stainless Steel Pull Ring

TANK VALVE :

Application:

Tank Valves are especially designed to permit quick inflation, deflation & gauging of containers with / without various standard equipment such as air chucks, deflators & pressure gauge. They provide minimum protrusion within the containers where space is at premium.

Working :

These valves are fitted with VALVE CORE a tiny precise item whose every point serves a specific purpose.

- **Plug** - Single piece construction permits full flow of gas giving clear & fast inflation/ deflation.
- **Teflon Sleeve** - Super slippery, self-swiveling & non-sticky gasket turns as it tightens, thus maintaining a perfect sealing.
- **Ferrule & Plunger Washer** - Scientifically designed to optimum air blast along with cleaning the plunger washer each time valve operates.
- **Spring** - Corrosion Resistant Stainless Steel / Brass coil spring provide right tension for the best seal.
- Plunger Pin - Seating at the top & bottom of plunger pin provides positive location for inflation/deflation pressure gauge.

Brass valve cap provides maximum sealing force with minimum effort. Thus avoiding entry of any dirt particles to the valve mouth to impair the operating efficiency of valve core. Valve Core with valve housing is yet an ACE OF STANDARDIZATION.



Different Models available are :

- a). G.F.V.- 1*
- b). G.F.V.- 2*
- c). G.F.V.- 3
- d). G.F.V.- 4
- e). G.F.V.- 5
- f). G.F.V.- 6
- g). G.F.V.-

Drawing "GFV 2B"

Drawing "GFV 1N"

Our Model GFV-1B available with 1/8" B.S.P. Mounting Thread, to be fitted with & Rubber "O" or Aluminum Washer.

Our Model GFV-2B available with 1/8" B.S.P. Mounting Thread, to be fitted with & Rubber "O" or Aluminum Washer.

Our all models have option of availability with/ without Brass Cap.

Our all models have option of availability in Natural Finish/ Nickel Plated.

Routine Test :

Each valve is individually tested for leakage at 2.5 kg/ cm. sq. by soap water process.

PRESSURE RELIEF VALVE WITH LIQUID LEVEL INDICATOR :

Application:

Pressure Relief Valve (P.R.V.) is a safety device to be used in Transformer, Pressure Tanks & Pressure Lines for indoor & outdoor application. Suitable for repeated operation as compared to Conventional Explosion Vent which is for single use. It is compact, highly reliable and particularly designed to be used on O.L.T.C., Transformers, & similar equipment's / tank with non-corrosive liquid.

Level Indicator is used to know level of liquid in Transformer / Tank for indoor and outdoor application. This product is very useful for Hermetically sealed transformers.

Features :

- It is to mounted Vertically
- Spring Safety Valve is compact, highly reliable and particularly useful for use in transformer & tanks containing non corrosive liquid even in extreme outdoor condition.
- Minimum surface area required with reference to flow capacity .
- Reliable Operating Pressure from 20 to 100 kPa. (0.20 to 1.00 kg/cm.sq.)
- Positive Resealing Pressure.
- Operating Temperature: -40° C to 120° C (of tank liquid).
- Sealing is with Nitrile Rubber "O" Ring.
- Valve Resetting Automatic. Suitable for repeated use.
- Acts as Oil Filling Cap also.
- Complete Assembly Pressure tested for leakage.
- Nitrophyl Float compatible with Transformer Oil.
- UV Protected Polycarbonate Clear window.



Different Models available are: Based on mounting there are different varieties :

a) Threaded

b) Flange Mounted

i) Normal

ii) Anti Theft.

| Mounting Thread/ Type | | 1"BSP (G-1") | 1.5" BSP (G-1.5") | 2"BSP (G-2") |
|-----------------------|-----------|--------------|-------------------|--------------|
| MODEL | Brass | BB-8PO*L | BB-12PO*L | BB-24PO*L |
| | Aluminium | AB-8PO*L | | |

| Flange Mounting | Flange Mounting 2 Nos. Hole of 9.00 Dia. Holes at 80mm. PCD | |
|-------------------|---|------------------------|
| Model (PRV of 1") | Normal (P-25PO*L) | Anti-Theft (AP-25PO*L) |
| Material | Aluminium | |

NOTE : As Specified by Customer

1. Total Length (L) with Float at Lowest Level.
2. * : Yellow Metal Cap Marking (LH Low- High) (MM Min-Max)
3. Flat Gasket can be provided if asked by customer
4. Special Rubber Sealing gasket can be provided as per tank fluid.

Testing :

- Each assembly is designed and tested to give Leak Proof installation and perfect fitment.
- Each PRV is calibrated and tested as per customer specification.

PRESSURE RELIEF VALVE WITH LIQUID LEVEL INDICATOR :

Application :

XD series of Tubular Oil Level gauge is specialized product for hermatically sealed transformers.

It is combo of:

- a) Pressure Relief Valve at the Top with effective diameter of 1".
- b) Oil Level Indicator where Blue indicated that the oil is sufficient and red indicates oil is to be refilled.

Pressure Relief Valve (P.R.V.) is a safety device to be used in Transformer, Pressure Tanks & Pressure Lines for indoor & outdoor application. Suitable for repeated operation as compared to Conventional Explosion Vent which is for single use. It is compact, highly reliable and particularly designed to be used on O.L.T.C., Transformers, & similar equipment's / tank with non-corrosive liquid.

Level Indicator is used to know level of liquid in Transformer / Tank for indoor and outdoor application. This product is very useful for hermatically sealed transformers.



Features :

- Reliable Operating Pressure from 15 to 50 kPa. (0.15 to 0.50 kg/cm.sq.)
- Spring Safety Valve is compact, highly reliable and particularly useful for use in transformer & tanks containing non corrosive liquid even in extreme outdoor condition.
- Compact and Rugged Design.
- It is to mounted Vertically.
- Positive Resealing Pressure.
- Operating Temperature: -40° C to 105° C (of tank liquid).
- Normally our sealing is with Nitrile Rubber "O" Ring.
- Valve Resetting Automatic. Suitable for repeated use.
- Float compatible with Transformer Oil
- UV Protected Polycarbonate Clear window
- Each assembly acts as a conservator also.

Different Models available are :

Based on PRV Mounting there are different varieties:

| Mounting | | 1.5" BSP (G-1.5") | | |
|----------|--------------|-------------------|---------|------------|
| MODEL | PRV Mounting | Threaded | Economy | Flange PRV |
| | Steel | MLXD | MLXE | MLXF |
| | Aluminium | ALXD | ALXE | ALXF |

Note : - Total Length (L) As Specified by Customer.

| | | | | | |
|---------------------------------|-----|-----|-----|-----|-----|
| Standard Length (L)(mm.) | 180 | 270 | 370 | 420 | 520 |
|---------------------------------|-----|-----|-----|-----|-----|

Testing :

- Each assembly is tested for leakage by soap water.
- Each PRV is calibrated and tested as per customer specification.

OIL LEVEL INDICATOR :

Application :

Oil level gauge are designed for general industrial use for level monitoring of tanks and similar vessels.

Working :

- Easy to fit these oil Level Gauge gives a clear visibility from distance due to refractive property.
- Depending upon nature of liquid, seal ensures Leak Proof Assembly.



P-1L



6040L



AL***

Model :

1. Model: P-1L- Aluminium Pressure Die Casted Body.
2. Model: 6040- Aluminium Sheet Metal Body with Prismatic Effect View Window
3. Model: AL***-
 - 19 mm. Square Clear Acrylic Rod
 - M-10 Mounting Stud, Gasket and Nut.
 - Mounting PCD to be provided by customer.
 - Marking Provided of High, Medium & Low.
 - Marking Provided of 5° , 30° , 98° C.
 - Any other Marking as per customer can be provided.
 - Each assembly designed & tested ensures for Leak Proof Fitment at 1kg./cm .sq. for 30 Minutes

OIL LEVEL INDICATOR VERTICAL MOUNTING :

Application :

Oil level gauge are designed for general industrial use for level monitoring of Hermetically Sealed Transformer and tanks and similar vessels.

Working :

- Easy to fit Oil Level Gauge gives a clear visibility from distance due to refractive property.
- Compatible rubber seal ensures Leak Proof Assembly.



F-25OCL

AG-1FL

BG-1FL

Features :

- UV Protected Polycarbonate Clear window.
- Nitrophyl Float suitable for use in transformer oil.
- Working Temperature- -40 to 120 °C

Model :

| Mounting Thread | | G-1" (1-BSP) | G-1 1/4" (1.25-BSP) | G-2" (2-BSP) |
|-----------------|--------------|-----------------|---------------------|----------------------|
| Body | B-Brass | BB-8O*L | BB-12O*L | BB-24O*L |
| | A- Aluminium | AB-8OL | N/A | N/A |
| FLANGE MOUNTING | | NORMAL(P-25O*L) | | ANTI-THEFT(AP-25O*L) |
| BODY | | ALUMINIUM | | ALUMINIUM |

NOTE : Specified by Customer

1. Total Length (L)
2. Marking (LH Low- High) (MM Min-Max)
3. Yellow Metal Cap (C) (Prefix before L)

Testing :

Each assembly is designed and tested to give Leak Proof installation and perfect fitment.

TUBULAR OIL LEVEL GAUGE :

Application :

Tubular oil level gauge are designed for general industrial use for level monitoring of tanks and similar vessels.

Working :

- Easy to fit these Tubular Oil Level Gauge gives a clear visibility from distance due to refractive property.
- Float provided helps to know the Liquid Level from distant.
- Depending upon nature of liquid, rubber seal ensures Leak Proof Assembly.

Model (TOLG*):**

Different Models are:

- ATOLG***- This model has the feature of tightening its bolt from back. This makes it Anti Theft.
- BTOLG***-This model has the feature of tightening its Bolt from front.

Where : *** is the PCD of the mounting holes in mm.

Note : Hardware used is compatible to Environment condition, Tank Liquid and Aesthetics.

Features :

- Stainless Steel bars in front are provided for safety during transit and use.
- Easy fitting
- Tube made of clear Polycarbonate.

Testing :

Each assembly is checked for leakage and fitment.



Model : ATOLG

Model : BTOLG

GAS MONITORING SYSTEM (AUTOMAT) :

Application :

Used in Transformer or other sealed tank while Storing / Transportation to provide constant Nitrogen (N₂) / Inert Gas / Hot Air pressure so as not to allow atmospheric air & moisture to enter Tank.

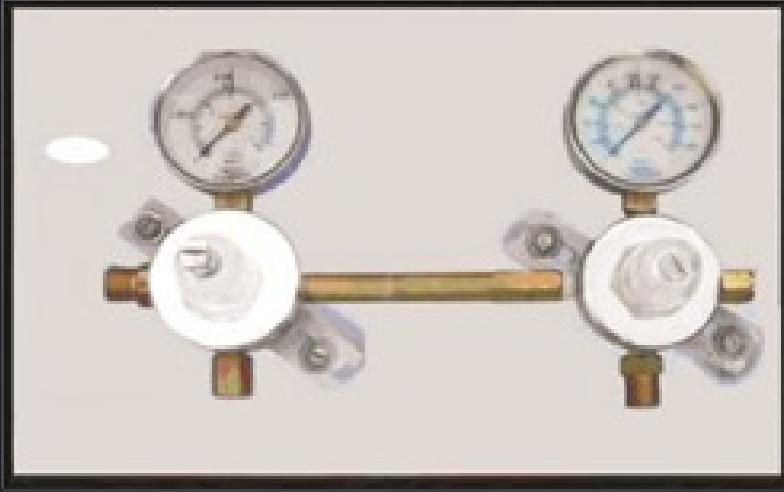
Working :

Gas regulator is used to automatically maintain a positive pressure of 0.15 to 0.50 kg / cm. sq. or as desired (pre information necessary) inside the connected tank by help of attached High Pressure gas cylinder. In case pressure falls below 0.15 kg / cm. sq. (or as set) due to leakage or temperature variation, regulator automatically allows required additional gas to flow from the attached High-Pressure gas cylinder. This builds up the required pressure. Double Stage regulation beside minimizes the risk also increases the flow rate thus the efficiency of system. To know the inlet & outlet pressure, gauges are attached. Safety valve at High-Pressure (H.P) & Low-Pressure (L.P.) is attached so that if any unwanted pressure builds up in regulator chamber is released.

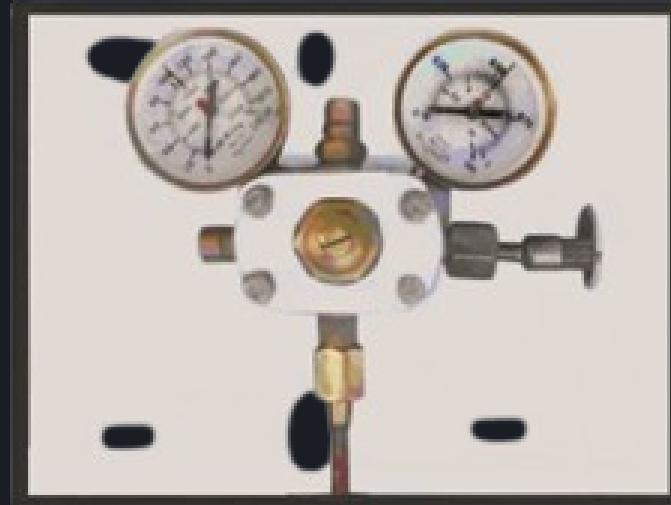
High Pressure cylinder is not a standard part of our item / supply



SDGR-02D



DGR-02



SDGR-02



DGR-05

MODEL :

| MODEL | No. of Cylinders | No. of Stages | No. of Gauges | Features |
|----------|------------------|---------------|---------------|--|
| SDGR-02 | 1 or 2 | 2 | 2 | Box Mounting. |
| SDGR-02D | 1 | 2 | 2 | Direct Single Cylinder Mounting |
| DGR-02 | 1 or 2 | 2 | 2 | Box Mounting. |
| DGR-05 | 1 or 2 | 2 | 5 | Box Mounting. Individual Cylinder Pressure can be visualized |
| TGR-02 | 1 or 2 | 3 | 2 | Box Mounting. It gives precise control of even very Low Pressure. Gas Purging at Higher Pressure for Conservator without Air Cell can be done by help of 3 Way Valve |

Note:

- Except SDGR-02D all other models are available in Single or Double cylinder.
- In special case number of cylinders can be even higher as desired.
- Heaters can be provided if required.
- Housing for cylinder along with regulator can be provided in all models, as shown in Model TGR-02.

Testing :

1. Each assembly is tested for Functional & Leakage Test for 24 hrs by compressed gas after blocking outlet connection. During testing Inlet Pressure (of cylinder) is 150 ± 10 kg / cm. sq. & Outlet Pressure is 0.25 ± 0.025 kg / cm. sq. or higher as desired.
2. L.P hose is tested at 0.7 kg / cm. sq. for 15 minutes or as desired.
3. H.P hose is tested at 130 ± 10 kg / cm. sq. for 15 minutes.

Mounting : Mounting Holes or brackets are provided as desired by customer.

Identification : Each Regulator bears a Serial no., Month, Year of manufacturing for proper identification.

Test Certificate : Test Certificate is provided with each regulator for the above test performed.

Special features are :

- Gauges of size 63 mm. with white dial to ensure better readability & are confirming to IS 3624.
- No intermediate setting is required as Automatic regulating of pressure is done after desired single setting.
- Normally Copper HP hose 800 mm. long is provided with Brass socket of 5/8" B.S.P. Male thread to directly connect to cylinder and 3/8" B.S.P. to monitoring system.
- L.P. hose normally 3600 mm. long is of PVC (1 No.) with 3/8" B.S.P. female thread outlet connection. It has Non-Return Valve (NRV) to ensure in case of hose gets leaked the gas in tank does not flows out.

LOW/HIGH PRESSURE ALARM SYSTEM :

APPLICATION :

To give Alarm and light indication if the pressure of Tank/ Transformer reaches to alarming low/high level during transit or storage.

WORKING :

Specially calibrated pressure sensing switch is attached to the Tank through Flexible hose, connected to pressure Tank. As soon as the pressure in the tank decreases to alarming level the pressure sensing switch actuates the signals.

- In TRANSIT Mode: During Transit the remote send signals to wireless Bell/Buzzer which starts giving audio signals and light as visual indication.
- In AUXILLARY (Storage) Mode: During Auxiliary (Storage) Mode the auxiliary alarm system is directly attached to transmit audio and or light signal as connected.



FEATURES :

- Complete unit has been packed in FRP Box having tested for Environmental Condition IP 65.
- 3 Way Switch (2) is provided for selection of different use mode TRANSIT / OFF AUXILLARY.
- Cable Gland (3) is provided for inlet of Auxiliary Cable
- Under Ideal Condition workable range of Wireless System is 15-20 meters.
- Special intermittent ringing effect is incorporated in the ringing wireless system, till the pressure is not restored in the Tank.
- To check the healthiness of the circuit, push type CHECKING SWITCH (4) is provided. To be used when Tank Pressure is above alarm actuating pressure.
- Power source for :
 - 1). Remote is Long Life 1 Nos. is Dry Alkaline Batteries 12 V – 23 A,
 - 2). Wireless Buzzer/Bell 3 Nos is Long Life Dry Alkaline Batteries AAA,1.5 V.
- Power source during AUXILLARY (STORAGE) preferred is 12 V- D.C

IMPORTANT :

1. Mount LPAS near to the ringer unit with least interference in case of using wireless system.
2. Periodically check healthiness of the Circuit & Dry Battery by the circuit CHECKING SWITCH.
3. Select proper mode while using this instrument by help of 3-way switch provided. 3-way switch is provided to select mode of use Transit/OFF/Auxiliary.
4. Intermittent ringing and blinking light of bell/ buzzer can be stopped artificially by changing the position of switch to OFF, to save Power / Battery life.
5. During not in use keep the system in OFF condition.
6. In case Dry Cell / Battery discharge replace by right substitute.
7. Any assistance /rectification or modification of equipment at site is not recommended. Same if required to be contacted to manufacturer immediately.

TESTING :

Routine Test conducted to check in all mode :-

- 1). Transit (Wireless System)
- 2). OFF
- 3). AUXILLARY (Storage) (External Alarm System)
 - i) Continuous Ringing / working of the system at pre-set alarm Pressure .
 - ii) Stopping of alarm if the pressure is increased to safe zone.
 - iii) Function of circuit CHECKING SWITCH.

Mounting as per requisite/ Custom Requirement

SOLENOID INTERLOCK DEVICE :

Application :

Interlocking device are unique combination of lock and key to ensure definite sequence of operation of one or more industrial and substation equipment as per customer requirement. It is also known as CASTLE LOCK & KEY. Each job is engineered by our experienced team to give a unique lock and key combination.



Working :

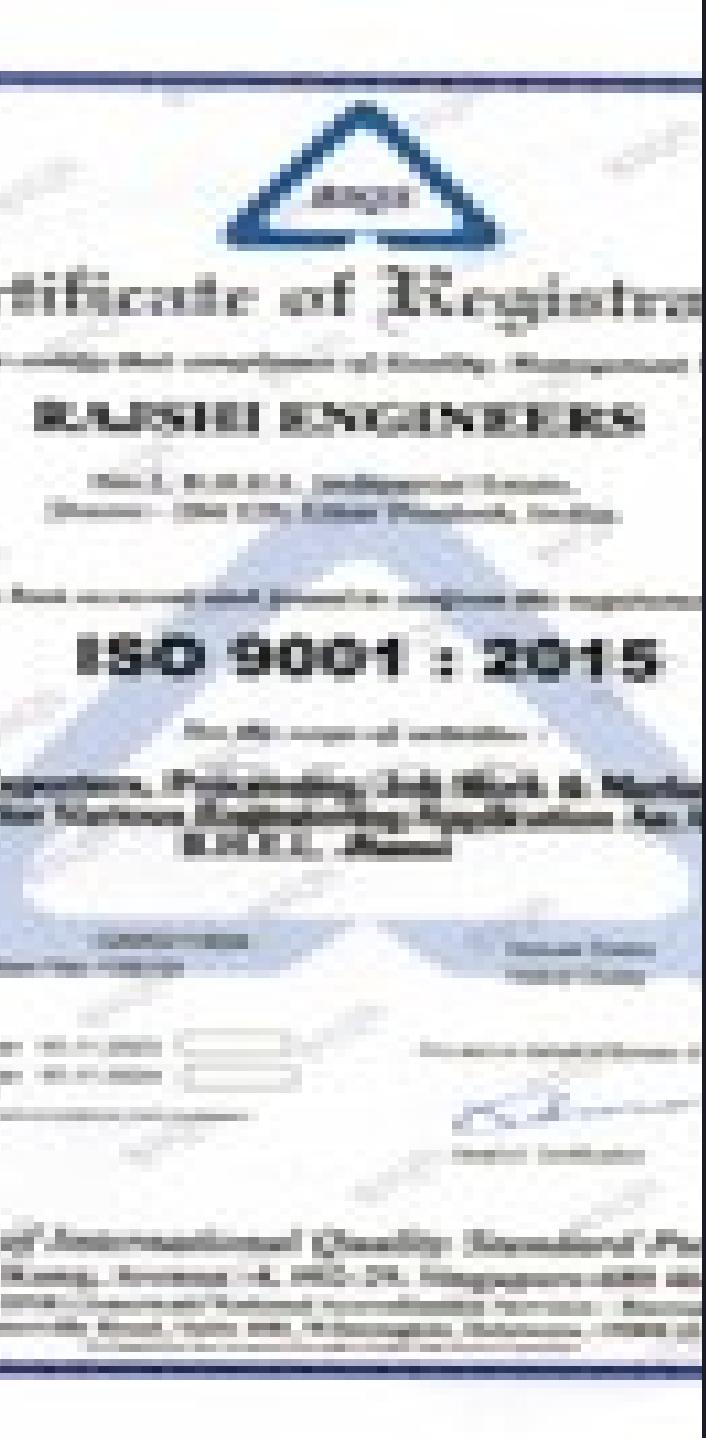
- Key exchange box ensures that once certain Control Keys are trapped, then only the other desired keys are released in a sequence. The trapped keys can only be released when the earlier released keys are placed back to their respective positions in reverse sequence and trapped.
- Door Lock type Interlocking device is commonly used in Dry/ Cast Resin Transformers and substations. It is important to note that the Control Key can only be removed from initial box if the solenoid is deenergized. Released Control Key is trapped in Key Exchange Box , to release the trapped Door Lock Keys. These are then used to open Door Bolt Lock. Where they remain trapped till the door are open. These can only be released once the bolt lock returns back to the lock position. Now these door keys are trapped back in Key Exchange Box after which the Control Key is removed. The NO-NC Contact ensures that Control Key will be trapped only when the solenoid is energized.
- The operation of standard locking and unlocking can be executed depending upon the design with rotation of clockwise and anticlockwise in different degrees like 90° , 65° , 45° etc.

Models:

- Outside Control Key can be locked with several side lock key
- Different models having solenoid with NO or NC contact can be made.
- Combination having different series of operations can be made.

FEATURES :

- Assures series and sequences of appropriate operations.
- Unique lock and key combinations make it full proof.
- Robust construction for long life.
- Designed ergonomically for easy and smooth operation.
- Visible lock/unlock condition.
- Excellent finish.
- This unique castle lock and key arrangement makes it an important safety device for use in transformer, switchgears and substations.
- For any of the models the equipment cannot be utilized even if any one of the keys is missing.
- We provide master key if asked by the supplier along with the supply in spare



Quality

With over 45 years of experience RAJSHI ENGINEERS is a leading manufacturer of Instruments for Transformers like Pressure Relief Valves, Tank Valves and other transformer parts.

We are committed to providing our customers with high-quality products and services with the help of a team of experienced engineers who are dedicated to designing and manufacturing our products to the highest standards. We also have our in-house team of customer service representatives who are available to answer your questions and help you find the right products for your needs.

Rajshi Engineers is proud to be a part of the energy sector and to help keep our customers' power systems safe and reliable. Our manufacturing facility is ISO 9001:2015 certified unit giving us the confidence to be one of the best in our sector.



Our commitment to provide our customers with the latest products in the market is backed with some of the below qualities.

- Experience : Rajshi Engineers has been in business for over 45 years, with a wealth of experience in the energy sector. We know what it takes to design and manufacture high-quality products that meet the needs of their customers.
- Innovation : Our company is always looking for new ways to improve the products and services. We are at the forefront of developing new technologies for the transformer sector.
- Customer Service : WIth a team of experienced customer service representatives who are available to answer your questions and help you find the right products for your needs we are always committed to providing you with excellent customer service.

ISO 9001:2015

Our Customer



EMMESS CONTROL
Private Limited





Team

Founder :

CEO :

CMO :

Member :

Member :

Contact Us

Rajshi Engineers
2, B.H.E.L. Industrial Estate, Ancillary Area,
P.O. B.H.E.L., Khilar, Jhansi Uttar Pradesh,
India. 284129

Contact no. :
+91 – 9415113335 / 0510 – 2770090

Email :
rajshijhs@yahoo.com

Team

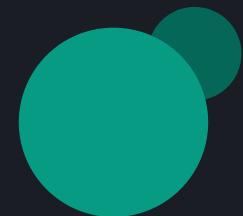
Founder :

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Member :

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Contact Us

Rajshi Engineers

2, B.H.E.L. Industrial Estate, Ancillary
Area, P.O. B.H.E.L., Khilar, Jhansi Uttar
Pradesh, India. 284129

Contact no. :

+91 – 9415113335 / 0510 – 2770090

Email :

rajshijhs@yahoo.com