Refrigerant pressure gauges

YTNL-60ZT | Complete English user manual

1. Product overview

These gauges are used during installation, leak detection and maintenance of refrigeration and air-conditioning systems. Measuring refrigerant pressure on the high or low side helps technicians assess system operation, refrigerant charge and possible restrictions or leaks.

2. Product features

Long service life: A wide Bourdon-tube design supports durability and stable operation.
Precision movement: The mechanical transmission provides reliable pressure indication.
Factory checks: The source describes leak, overpressure and fatigue testing before shipment.

3. Illustrated YTNL-60ZT versions

Version	Pressure full scale
High-pressure gauge	3.8MPa
Low-pressure gauge	2.5MPa

4. Family technical parameters

Parameter	Specification
Accuracy	±1%FS or ±1.6%FS; follow the instrument marking
Operating conditions	Medium: maximum 60°C. Ambient: −5°C to 60°C. All-stainless-steel versions: medium maximum 150°C; ambient −40°C to 60°C.
Size choices	40, 50, 60, 70, 80, 90 and 100mm
Ingress protection	IP54
Selectable pressure envelope	−0.1MPa to 60MPa; choose the calibrated range appropriate to the specific gauge
Thread choices	1/8in NPT; 7/16-20UNF; 5/16-24UNF
Mounting	Radial; axial; axial with front flange; radial with rear flange
Refrigerant designations listed	R22 / R134a / R404A / R410A / R407C / R704 / R433B / R407F / R502 / R507A / R507c / R600a / R406

These are family options, not a statement that every size, range, connection and refrigerant scale is available in one gauge. The 150°C medium limit applies only to the all-stainless-steel version. The illustrated YTNL-60ZT high- and low-pressure versions have the separate full-scale values above.

Refrigerant options include the listed R704 and R507c designations. Specify the exact refrigerant and matching dial scale when ordering.

Installation, use and maintenance

5. Before installation

Check the refrigerant gauge model. Confirm that its refrigerant type, pressure range and connection match the pressure source. The pointer must be at zero before installation and before pressure is applied.

6. Installation procedure

1. Select the location. The source specifies installation with the connection direction perpendicular to the pipeline.
2. Seal the connection. Align the gauge thread with the pipe port, then tighten gradually using a wrench. Avoid tilted engagement.
3. Once the connection is secure, gently tap the case. With the gauge unpressurized, verify that the pointer returns to zero without sticking. Put the gauge into service only after a satisfactory check.

7. Reading the gauge

Keep the eye level with the dial and pointer, and view the dial perpendicularly. Use the pressure and refrigerant-temperature units printed on the dial. Filling-fluid damping can delay pointer response slightly; wait until the pointer settles before reading.

8. Abnormal operation

Stop using the gauge immediately if the pointer continues to shake widely, sticks or remains displaced from zero when unpressurized, or if the filling oil leaks or becomes cloudy. Check whether the cause is system vibration, pressure fluctuation or instrument failure.

9. Maintenance

Inspect the case, pointer and connection regularly for abnormalities. Professional calibration every 6–12 months is recommended.

10. Precautions

1. The source states that the gauge is calibrated before shipment and complies with applicable national requirements. Do not dismantle or modify it, or replace the filling fluid yourself. Contact the supplier if the instrument fails.
2. Do not strike or drop the gauge, or apply heavy force to its case, connection or window.
3. Do not use the gauge outside its pressure or temperature range. This can seriously shorten service life or damage the instrument.
4. Before dismantling, servicing or transporting the pipeline on which the gauge is installed, remove the gauge and protect its body and connection. Reinstall it according to section 6.

Source identification

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