

PRESSURE MEASUREMENT
Refrigeration Gauge

Type 3: (Freon scale) Stainless steel case with brass internals

Type 4: (Ammonia scale) Stainless steel case with stainless steel internals

Data Sheet P REF3-4

Service Intended

Suitable for refrigeration media such as freon and ammonia. Typical applications will be in the refrigeration and air-conditioning industry.

Case Details

Nominal Dia: 63, 80, 100 & 160mm diameter.
Material: Stainless steel 304

Bezel

Standard - **Type R:** S/Steel rolled ring type - tamper proof.
Optional - **Type T:** S/Steel bayonet lock, twist type - removable.
Material: Stainless steel 304

Pressure Connections

Material: Type 3: Brass. Type 4: Stainless steel 316
Sizes: 63 & 80mm dia: 1/8" & 1/4" in BSP or NPT or 1/4" flare.
Sizes: 100 & 160mm dia: 1/4", 3/8" & 1/2" in BSP or NPT or 1/4" flare.
Position: See "Mounting Configurations".

Mounting Flange

Material: Polished stainless steel 304
Position: See "Mounting Configurations".

Pressure Element

Material: Type 3: Cu-alloy. Type 4: Stainless steel 316.

Geared Movement

Material: Clockwork brass or stainless steel.

Pointer

Collet: Aluminium or brass
Blade: Black aluminium

Dial

Material: Aluminium, white with black lettering.

Window

Instrument glass or plexiglass.

Weather Protection

IP 65 Dust & weather proof.

Working Pressure

Steady: Full scale value
Fluctuating: 90% of full scale value
Short Period: 130% of full scale value
For pulsating pressure, the use of an inlet restrictor and/or liquid filling is recommended.

Accuracy Class

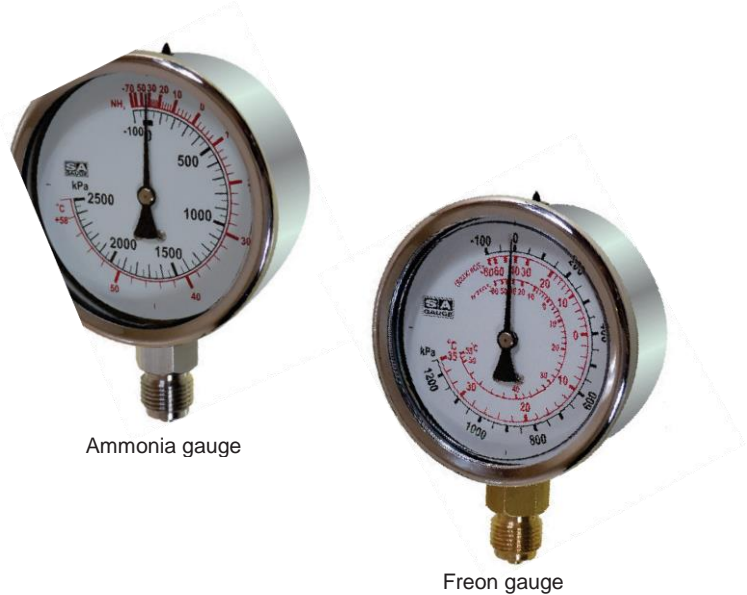
63mm & 80mm dia: Class 1.6 (1.6 % of full scale value)
100mm & 160mm dia: Class 1 (1% of full scale value)

Operating Temperature

Ambient: -20 °C to + 60 °C
Medium: +70 °C (soldered tube): + 100 °C (brazed tube)

Optional Extras

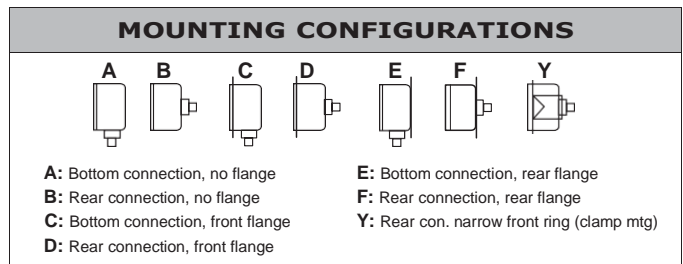
- Calibration Certificate
- Rubber cover (for robust handling)
- Customized scale plates (customer logo, red line, etc)
- Special Dials, other than standard (dual scale, bar, psi)
- Damped movement (Vibragauge)
- Single or double electrical contacts (100 & 150mm only)
- Colour Coding of dial
- Drag pointer (maximum set pointer)
- Micro adjustable pointer
- Blow out disc



Ammonia gauge

Freon gauge

For dimensional drawing see technical section



STANDARD PRESSURE RANGES

Ranges	Figure Interval	Minor Graduations	Ranges	Figure Interval	Minor Graduations
Freon			Ammonia R717 (NH₃)		
-100 / 0 / 1250 kPa	200	50	-100 / 0 / 1250 kPa	200	50
-100 / 0 / 2500 kPa	200	100	-100 / 0 / 2500 kPa	500	50
-100 / 0 / 12.5 bar	2	0.5	-100 / 0 / 12.5 bar	2	0.5
-100 / 0 / 25 bar	5	1	-100 / 0 / 25 bar	5	0.5
Above pressure scales with corresponding temperature scale as required.			Above scales standard with R 717 (NH ₃) temperature scale.		
Optional Scales			Optional Scales		
Other equivalent units of pressure or vacuum such as psi and inHG etc. Dual scales, such as kPa / psi, or bar / psi.			Other equivalent units of pressure or vacuum such as psi and inHG etc. Dual scales, such as kPa / psi, or bar / psi.		
<i>Customized and other scales such as bar / psi / inHG etc. are available on request</i>					

HOW TO ORDER USING OUR PART NUMBERS

Casing Type: _____ T 3 A 100 G 1/2 B 1000 kPa

Gauge Type: _____

Configuration: _____

Dial Size: _____

Glycerine filled / Dry: _____

Connectino Size: _____

Pressure Range: _____