

PANIMPEX CATALOGUE 2024

Specifications subject to change without notice.



SMART MOBILE MEASURING



GAUGES & VACUUM GAUGES  
MANIFOLDS & HOSES



SUPER-SEAL



REFRIGERATION TECHNOLOGIES



MAINTENANCE & CALIBRATION



# PANIMPEX NV

PANIMPEX NV has been producing the famous **Blondelle 'A Lame Acier'** gauges successfully since 2001. Panimpex introduced the first CO<sub>2</sub> Transcritical manifold successfully in 2006 and automotive CO<sub>2</sub> quick couplers in 2014. For 2024, the CO<sub>2</sub> manifold will be overhauled with new robust valves with smoother operation.

The **Blondelle** expertise in mechanical engineering and the know-how derived over 75 years of experience is the basis of the continuous drive for perfection and innovation in the production of pressure measurement instruments.

From this manufacturing and development know-how an innovation was born: **Metreco - Smart Mobile Measuring**. This industry innovation will change the way technicians work.

With more than 20 years of experience in hand leak detectors Panimpex has selected and designed a calibrated reference leak and is co-branding this with the manufacturer HTP as **Panimpex Leak Detection**. The calibrated leak is F-GAS certified!

Diversitech markets the **Super Seal** in Europe Refrigeration markets through Panimpex NV.

**Refrigeration Technologies Inc.**, is located in Fullerton (CA) USA, and goes to market in Europe through Panimpex NV as a master distributor with their products Check-Mate, Big Blu, Nylog etc.

In our continuous strive for quality and customer service we are ISO9001:2015 certified.

ISO 9001:2015 certified by the LRQA Limited





Discover the Configurator on  
[www.metreco.com !](http://www.metreco.com)

The screenshot shows the Metreco Configurator Wizard page. At the top, there's a navigation bar with the Metreco logo, a shopping cart icon, and language selection (NL). Below the header, the title "Metreco Configurator Wizard" is displayed in large green text. The main section is titled "DEFINE SYSTEM TYPE" and contains two dropdown menus: "System type" and "Refrigerant type". Underneath, a section titled "WHAT DO YOU WANT TO MEASURE?" lists several options with radio buttons. The "Superheat and Subcool" option is selected. Other listed options include SEI, Vacuum, and three "extra optie" options. At the bottom are "SUBMIT" and "CLEAR" buttons.

Metreco smart mobile measuring

home producten nieuws ontdek contacteer ons app NL

## Metreco Configurator Wizard

DEFINE SYSTEM TYPE

System type

Refrigerant type

WHAT DO YOU WANT TO MEASURE?

Superheat and Subcool  SEI  extra optie  
 COP 1  Vacuum  extra optie  
 COP 4  extra optie  extra optie

**SUBMIT** **CLEAR**



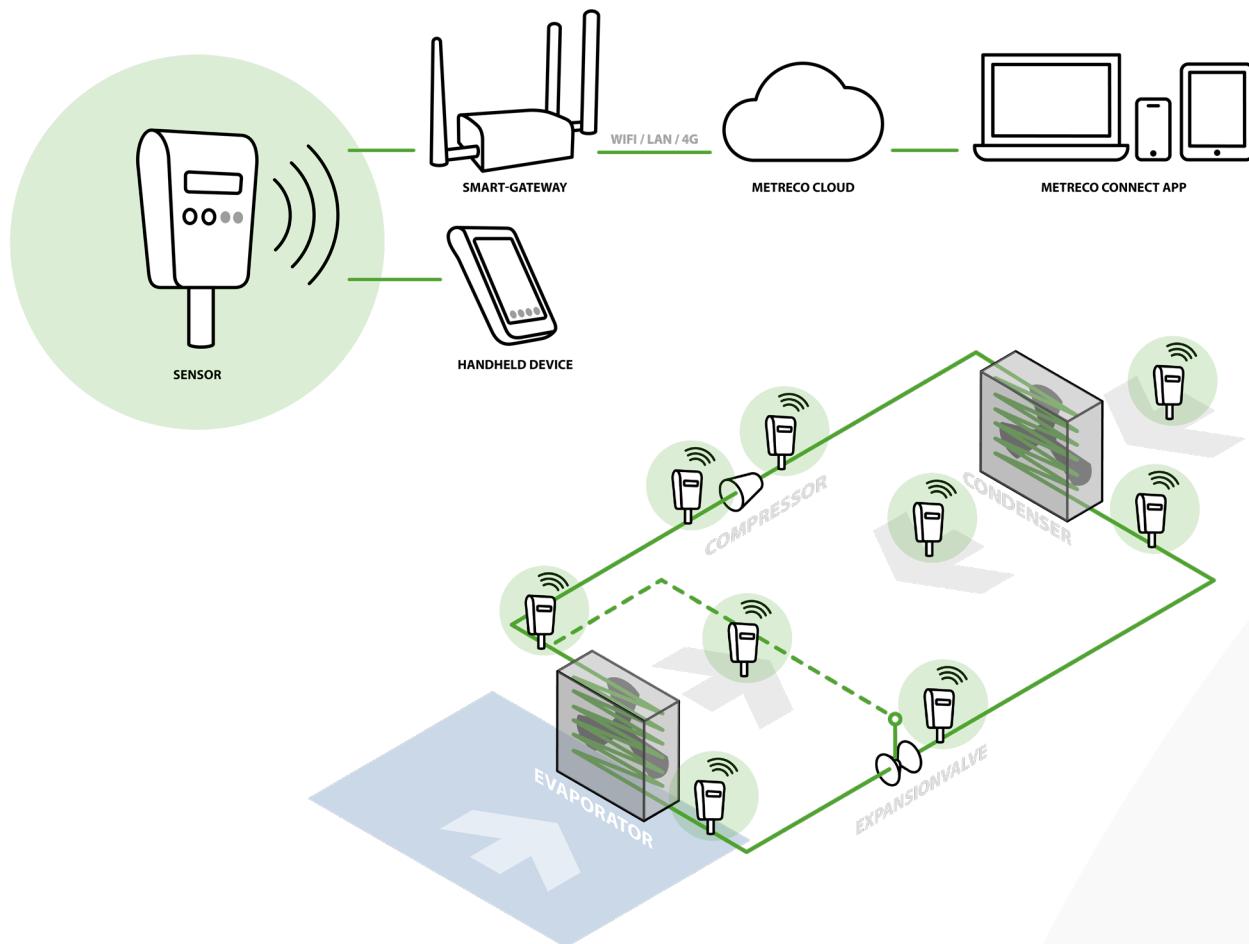
# METRECO

## smart mobile measuring





## Dynamic Control from your mobile devices & PC



### Metreco Cloud Connect performs different types of measurements

- ✓ Instantaneously :  
1h - 1 day commissioning, or troubleshooting
- ✓ Medium and long term monitoring :  
1 to 4 weeks (troubleshooting, retrofit, etc.) 1 to 12 months and more (COP, etc.)

Wireless sensors are positioned on the installation, they transmit the data to a gateway which sends them to the Cloud. Up to 20 sensors can be used per gateway depending on the size of the system to be analyzed.

The results can be viewed on computer, tablet, smartphone via an application. It is possible to use several gateways on the same site and also to analyze several sites, geographically separated, using several gateways .

[info@metreco.com](mailto:info@metreco.com)



## Why choose CLOUD Connect?

- ✓ easy monitoring, visualization and reporting of all critical values
- ✓ measurements, logging, short term & long term monitoring
- ✓ analysis of 1 system or several units
- ✓ connect to the Metreco CLOUD Connect with the Smart-Gateway through 4G & Ethernet
- ✓ ad hoc measurement, measurement campaign, logging and monitoring
- ✓ commissioning
- ✓ troubleshooting
- ✓ optimization of energy efficiency



### DIAGNOSTICS

The analyzer makes it possible to identify the source of a failure very quickly and to intervene on the system without delay.



### MONITORING

It controls the operation of the system when starting up or modifying an installation.



### COP

It measures the energy efficiency of the installation to achieve energy savings.

## CLOUD application

- ✓ energy performance indicators: COP, SCOP, SEER, SPF, SEI & COP / SEI Layers
- ✓ alerts and warnings
- ✓ traceable reporting, pressure test and vacuum test
- ✓ data analysis and Benchmarking
- ✓ Multi-site trend comparisons



## ADVANTAGES Metreco Cloud Connect

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### ✓ Contractor advantages : Time savings

Simple system setup: wireless sensors are positioned on the selected points, they are recharged directly from the mains.

Autonomy of the sensors, from 1 week to +6 months, depending on the frequency of data transmission.

Remote consultation of measurements on computer, tablet, smartphone via the Metreco Cloud Connect application.

### ✓ Customer advantages : Financial gains

Monitoring: monitoring of the correct functioning of the installations (prevention of breakdowns, maintenance).

Quick restart in the event of a breakdown (avoids / limits operating losses).

Real-time COP monitoring (energy savings).

### ✓ Assurance for the contractor and customer : Reliability gains

Metreco COP was verified by POLE CRISTAL, an independent laboratory located in Dinan (France). The comparative tests were carried out in accordance with standard EN 14511.

## Sensors



20 bar  
pressure  
sensor



50 bar  
pressure  
sensor



temperature  
sensor



amperage  
sensor



local measurements  
handheld



CLOUD Connect  
Smart-Gateway

### ■ Short or long term needs?

The sensors battery life depends on the send frequency, change the frequency depending according to the needs of your next project:

- ✓ 1s / 15s / 30s / 1min
- ✓ 1s = ±1 week / 60s = ±6 months (depending on sensor type)

The sensors are charged with a USB cable, included with every sensor.

**Discover the Configurator on  
[www.metreco.com](http://www.metreco.com) !**

**Metreco Configurator Wizard**

**DEFINE SYSTEM TYPE**

System type:

Refrigerant type:

**WHAT DO YOU WANT TO MEASURE?**

<input checked="" type="radio"/> Superheat and Subcool	<input type="radio"/> SEI	<input type="radio"/> extra optie
<input type="radio"/> COP 1	<input type="radio"/> Vacuum	<input type="radio"/> extra optie
<input type="radio"/> COP 4	<input type="radio"/> extra optie	<input type="radio"/> extra optie

**SUBMIT**    **CLEAR**

## Metreco Standard Pressure Sensors

Standard refrigerants: HFC, HFO, CFC, HCFC & CO2 Subcritical



- -1+20 bar pressure sensor, 1/4" SAE female
- -1+50 bar pressure sensor, 1/4" SAE female
- USB-charging (cable supplied)

- HFC, HFO and CO2 Subcritical
- Suitable for measuring oil pressure
- Precision: Class 0,5 (0,5% FS)
- Overpressure: 40 bar / 100 bar
- Burst overpressure: 70 bar / 150 bar

- Autonomy
  - Battery : 7 days → +7 months (depending on transmission frequency : 1s / 15s / 30s / 1min)
  - USB-grid : unlimited
- Battery: LiPo (Lithium Ion Polymer)
- Wireless range: min. 200m (open air)
- Protection: IP64 with cap closed

- Product code:
- LP: Pb0020M14S-C
- HP: Pb0050M14S-C

## Metreco CO2 Transcritical Pressure Sensors

CO2 Transcritical



- -1+100 bar pressure sensor, 1/4" SAE female, CO2 Transcritical LP
- -1+200 bar pressure sensor, 1/4" SAE female, CO2 Transcritical HP
- USB-charging (cable supplied)

- CO2 Transcritical, HFC, HFO and CO2 Subcritical
- Suitable for measuring oil pressure
- Precision: Class 0,5 (0,5% FS)
- Overpressure (100/200 bar) : 200 bar / 400 bar
- Burst overpressure (100/200 bar) : 250 bar / 450 bar

- Autonomy
  - Battery : 7 days → +7 months (depending on transmission frequency : 1s / 15s / 30s / 1min)
  - USB-grid : unlimited
- Battery: LiPo (Lithium Ion Polymer)
- Wireless range: min. 200m (open air)
- Protection: IP64 with cap closed

- Product code:
- LP: Pb0100M14S-C
- HP: Pb0200M14S-C

## Metreco NH3 Pressure Sensors

NH3 - R717 - Ammonia



- -1+20 bar pressure sensor, stainless steel 1/4"SAE female, NH3
- -1+50 bar pressure sensor, stainless steel 1/4"SAE female, NH3
- USB-charging (cable supplied)
  
- R717 (NH3 - Ammonia), HFC, HFO and CO2 Subcritical
- Suitable for measuring oil pressure
- Precision: Class 0,5 (0,5% FS)
- Overpressure (20/50 bar) : 40 bar / 100 bar
- Burst overpressure (20/50 bar): 70 bar / 150 bar
  
- Autonomy
  - Battery : 7 days → +7 months (depending on transmission frequency : 1s / 15s / 30s / 1min)
  - USB-grid : unlimited
- Battery: LiPo (Lithium Ion Polymer)
- Wireless range: min. 200m (open air)
- Protection: IP64 with cap closed

- Product code:
- LP: Pb0020i14S-C
- HP: Pb0050i14S-C

## Metreco NH3 Pressure Sensors

NH3 - R717 - Ammonia



- -1+100 bar pressure sensor, stainless steel 1/4"SAE female, NH3
- -1+200 bar pressure sensor, stainless steel 1/4"SAE female, NH3
- USB-charging (cable supplied)
  
- R717 (NH3 - Ammonia), HFC, HFO and CO2 Sub. & Transcr.
- Suitable for measuring oil pressure
- Precision: Class 0,5 (0,5% FS)
- Overpressure (100/200 bar) : 200 bar / 400 bar
- Burst overpressure (100/200 bar) : 250 bar / 450 bar
  
- Autonomy
  - Battery : 7 days → +7 months (depending on transmission frequency : 1s / 15s / 30s / 1min)
  - USB-grid : unlimited
- Battery: LiPo (Lithium Ion Polymer)
- Wireless range: min. 200m (open air)
- Protection: IP64 with cap closed

- Product code:
- LP: Pb0100i14S-C
- HP: Pb0200i14S-C

## Metreco Temperature Sensors

PT1000 Sensor



- Range: -50+150°C
- Precision: 0,5°C
- USB-charging (cable supplied)
  
- Autonomy
  - Battery : 5 days → +6 months (depending on transmission frequency : 1s / 15s / 30s / 1min)
  - USB-grid : unlimited
- Battery: LiPo (Lithium Ion Polymer)
- Wireless range: min. 200m (open air)
- Protection: IP64 with cap closed
  
- With Velcro strap for pipe mount
- With clamp for ventilator air flow
- With Stick-in probe for product core temperature & water cooling curtains

- Product code:
- Tc0150PV-C (Velcro)
- Tc0150PK-C (Clamp)
- Tc0150PP-C (Probe)

## Metreco Absolute Vacuum Sensor

Absolute vacuum, does not need calibration before use



- Absolute vacuum sensor,  
does not need calibration before use
- USB-charging (cable supplied)
  
- Range: +1000mBar - 0mBar
- Precision: Class 0,5 (0,5% FS)
- Overpressure: 5 bar
- Standard Version
- Premium Version (with overpressure valve +60Bar and ball valve)
  
- Autonomy
  - Battery : 7 days → +7 months (depending on transmission frequency : 1s / 15s / 30s / 1min)
  - USB-grid : unlimited
- Battery: LiPo (Lithium Ion Polymer)
- Wireless range: min. 200m (open air)
- Protection: IP64 with cap closed

- Product code:
- Standard : Vm1000M14S-C
- Premium : Vm1000M14S-28-C (Ball valve)



## Metreco Amperage Sensor

With easy to apply Rogowski coil



- Electrical intensity
- 2 Amperage ranges in 1 device: 0-25A & 0-500A
- Flexible Rogowski Coil
- USB-charging (cable supplied)
- Precision: +/- 100mA (0-25A) & +/- 250mA (0-500A)

- Autonomy
  - Battery : 4 days → +3 months (depending on transmission frequency : 1s / 15s / 30s / 1min)
  - USB-grid : unlimited
- Battery: LiPo (Lithium Ion Polymer)
- Wireless range: min. 200m (open air)
- Protection: IP64 with cap closed
- Measure 1-phase or 3-phase
- Measure 3-phase with 1 sensor or more accurate with 3 sensors

- Product code: Ca0600RG-C

## Metreco Radio-Signal Repeater

Range extender +150m - repeats all Metreco radio signals



- Radio frequency repeater
- Range extension: +150m
- USB-charging (cable supplied)

- Repeats all Metreco radio signals
- Combine multiple repeaters if necessary
- Autonomy
  - Battery : 3 days
  - USB-grid : unlimited
- Battery: LiPo (Lithium Ion Polymer)
- Protection: IP64 with cap closed
- Available with Velcro strap and clamp

- Product code: RPT01V-C (Velcro) - RPT01K-C (Clamp)

## Metreco Cloud Connect Gateway

Connect to the Metreco Cloud using the Smart Gateway



GW01ST

GW01ET

- Expand your measuring options using the Smart Gateway
- 4G & Ethernet
- Up to 20 sensors per gateway
- Use of multiple gateways on multiple sites possible

- Metreco Cloud Connect Subscription necessary
- Smartphone & Tablet App - Android & iOS
- Desktop Webbrowser interface
- Also available in a economical only Ethernet version
- SIM card not included

- Product code:  
GW01ST (4G/Ethernet)  
GW01ET (Ethernet)

# Metreco - Standard Case 2.0

smart mobile measuring - digital wireless system analyzer



Metreco Handheld



Metreco Sensors



- Dynamic measuring with METRECO, Smart Mobile Measuring, instead of static measuring with traditional manifold with hoses and temperature probes.
- Up to 20 sensors transmit their measurements simultaneously to the Handheld: no hoses - no lines.
- The user positions himself where he wants/walks around and can read out the measurements in real time.
- Intuitive/natural easy-to-use interface is operated with a capacitive touchscreen.
- Define your measurement/value targets
  - get a warning when they are off.
- Measurement - Diagnosis - Suggestions / Solutions.
- Database of serviced ACR systems available on Handheld & PC.
- Measurement reports on Handheld & PC.
- Charge your handheld and sensor batteries via USB and wall charger.
- Extra hoses and connectors for handling refrigerant.

*Metreco is supplied with:*

- 1 Carrying case, place for 10 sensors
- 1 Low Pressure Sensor 20 Bar
- 1 High Pressure Sensor 50 Bar
- 2 Temperature sensors -50+150°C
- Metreco Handheld with its 230V adaptor
- 4 USB cables for sensor charging
- Manual
- Set of hoses & connectors

- Product code: MT02ST

- Digital Wireless System Analyzer
- Measure and log all critical system data in real time, also COP
- Improve on-site efficiency - Be more professional
- No more running around- Speed up measurements
- Gain time substantially on each job
- Certified reporting and PED protocols
- Pressure and Vacuum Decay Tests
- All data such as Superheat, Subcool, Delta T&P and COP
- Optimize system efficiency with Metreco Smart-COP®
- Calculate Cooling Power with Ampclamp and Smart-COP®

## Metreco NH3 Kit

Specially designed sensors and hoses for Ammonia applications



- 20 Bar Low pressure sensor
- 50 Bar High pressure sensor
- Stainless steel 1/4" SAE female connectors
- 2 USB charging cables
- 3 hoses
- Connectors: 1/4"SAE-1/4"GAS & 1/4"GAS-1/2"GAS & T-connector
- NH3 - R717 - Ammonia

- Product code: KN02ST

## Metreco CO2 Transcritical Kit

Specially designed sensors and hoses for CO2 Transcritical applications



- 100 Bar Low pressure sensor
- 200 Bar High pressure sensor
- 2 USB charging cables
- 3 hoses
- CO2 Transcritical - R744

- Product code: KC02ST

## Metreco Absolute Vacuum Kit

Absolute vacuum sensor & Valve core remover



- Absolute vacuum sensor (Class 0,5) Premium
- with safety valve (+60Bar)
- with ball valve
- Range: +1000mBar - 0mBar
- Valve core remover
- USB charging cable

- Product code: KV02ST

## Metreco Product References

Panimpex Code	Description
Complete Product	
MT02ST	Metreco HVAC MK2: standard complete Metreco Set
MT02AA	Metreco complete set 2.0, without sensors - carrying case, handheld & accessories
Kits	
KV02ST	Kit Vacuum: Vacuum sensor (Overpressure- & Ball Valve) + schraeder remover
KC02ST	Kit CO2 Transcritical: 100Bar & 200Bar pressure sensors + hoses
KN02ST	Kit NH3: 20bar & 50Bar pressure sensors with Stainless steel couplers + hoses
Gateways & Cloud	
GW01ST	Smart Gateway - 4G & Ethernet
GW01ET	Smart Gateway - Ethernet
MTO1CC-Cloud-Fee	Metreco Cloud Connect Subscription - 1 year
MTO1CC-Cloud-AddGWFee	Metreco Cloud Connect Additional Gateway Subscription - 1 year
Handheld	
HH02ST	Metreco handheld standard 2.0, supplied with 230V wall charger
Sensors	( <i>USB cable charging only - cable supplied with each sensor</i> )
Pb0020M14S-C	-1+20 bar pressure sensor, brass 1/4"SAE female with schraeder depressor
Pb0050M14S-C	-1+50 bar pressure sensor, brass 1/4"SAE female with schraeder depressor
Pb0100M14S-C	-1+100 bar pressure sensor, brass 1/4"SAE female with schraeder depressor
Pb0200M14S-C	-1+200 bar pressure sensor, brass 1/4"SAE female with schraeder depressor
Pb0201I14S-C	-1+20 bar pressure sensor, stainless steel 1/4"SAE female (NH3)
Pb0050I14S-C	-1+50 bar pressure sensor, stainless steel 1/4"SAE female (NH3)
Pb0100I14S-C	-1+100 bar pressure sensor, stainless steel 1/4"SAE female (NH3)
Pb0200I14S-C	-1+200 bar pressure sensor, stainless steel 1/4"SAE female (NH3)
Tc0150PV-C	-50+150°C temperature sensor, Velcro
Tc0150PK-C	-50+150°C temperature sensor, Clamp
Tc0150PP-C	-50+150°C temperature sensor, Stick-sensor
Vm1000M14S-C	Absolute vacuum Sensor Standard
Vm1000M14S-28C	Absolute vacuum Sensor Premium : Overpressure valve + Ball valve
RPT01V-C	Repeater: range extender +150m with Velcro
RPT01K-C	Repeater: range extender +150m with Clamp
Ca0600RG-C	Electrical intensity sensor: Amperage sensor with Rogowski coil - 0-600A
Accessories	
DS02ST	Standard Metreco 2.0 carrying case, 10 sensor placements
MA02ST	Standard accessories for Metreco 2.0 : hoses, couplers, adaptors
MA02ST contains :	
S41B12-150	Red hose, 1/4"SAE-1/4"SAE with ball-valve; 1,5m; teflon; 55 Bar
S41B13-150	Blue hose, 1/4"SAE-1/4"SAE with ball-valve; 1,5m; teflon; 55 Bar
S41B14-150	Yellow hose, 1/4"SAE-1/4"SAE with ball-valve; 1,5m; teflon; 55 Bar (2pcs in MA02ST)
AC0107-8101	T-connector 1/4"SAE female with swivel and 2x 1/4"SAE male with schraeder
AC0107-8102	X-connector 4x 1/4"SAE male
AC0107-7410	Adaptor 1/4"SAE – 5/16"SAE (2pcs in MA02ST)
Others	
CERTIF-ETAL	Sensor Calibration Certificate – individual Sensor ISO17025

## Metreco Accessories & Spares

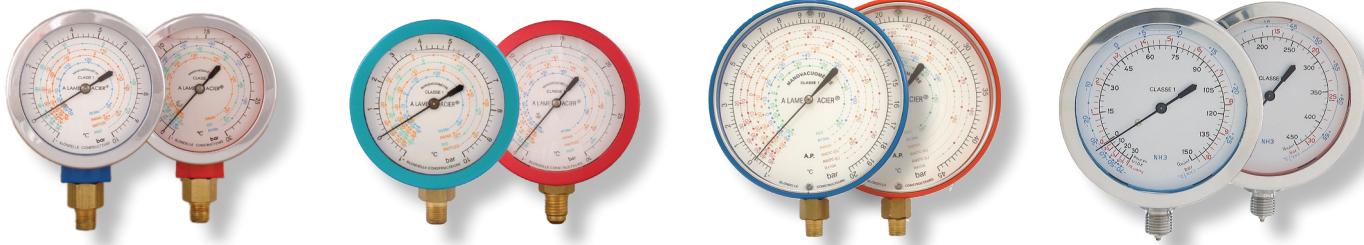
- Check our website: [www.metreco.com](http://www.metreco.com)
- Contact us: [info@metreco.com](mailto:info@metreco.com)

We strongly advise you to have your sensors calibrated yearly in accordance with European and local legislation!





# BLONDELLE GAUGES



## Blondelle Pressure Gauge, Ø60, Aluminium, LP



- Class 1
- 'A Lame Acier' unique bellow mechanism, the highest durability and accuracy
- All combinations of refrigerants possible
- Each gauge calibrated individually
- Aluminium case
  
- Admissible overload: 200%
- Possibility to adjust the needle
- Dry or oil filled
- Outlet: vertical or rear
- Fitting: 1/4" SAE or 1/8" NPT

Version	Low Pressure Version	Outlet	Fitting	Reference Case	Dial	Pressure psi	bar	Refrigerants
Dry	Vertical	Vertical	1/4" SAE	MA0601V14S	1001 1003 1005 1015 1017 1023 1031 1035 1037 1123 1137 1143 1227 2003 2005 2009 2011 2013 2015 2019 2025 2027 2029 2031 2033 2035 2037 2039 2041 2043 2045 2049 2051 2053 2057 2059 2061 2063 2065 2067 2069 2071 2073 2075 2077 2079 2081 2083 2085 2089	-30+290	-1+10	R507+R404A+R407Cvap/liq
		Rear	1/8" NPT	MA0601V18B		-1+10	R404A+R407Cvap/liq+R134a	
		Vertical	1/4" SAE	MA0601A14S		-1+10	R134a+R407Cvap/liq	
		Rear	1/8" NPT	MA0601A18B		-1+30	R744	
		Vertical	1/4" SAE	MA1001V14S		-1+20	R410A	
		Rear	1/8" NPT	MA1001V18B		-1+20	R410A+R22+R134a+R407C	
		Vertical	1/4" SAE	MA1001A14S		-1+20	R407Cvap/liq+R410A	
		Rear	1/8" NPT	MA1001A18B		-1+20	R134a+R404A+R410A+R22	
Oil filled	Vertical	Vertical	1/4" SAE	1001	-30+290	-1+20	R407Cvap/liq+R410A+R22	
		Rear	1/8" NPT	1003		-1+20	R134a+R407Cvap/liq	
		Vertical	1/4" SAE	1005		-1+20	R744	
		Rear	1/8" NPT	1015		-1+20	R410A	
		Vertical	1/4" SAE	1017		-1+20	R410A+R22+R134a+R407C	
		Rear	1/8" NPT	1023		-1+20	R407Cvap/liq+R410A	
		Vertical	1/4" SAE	1031		-1+20	R134a+R404A+R410A+R22	
		Rear	1/8" NPT	1035		-1+20	R407Cvap/liq+R410A+R22	
Oil filled	Rear	Vertical	1/4" SAE	1037	-30+290	-1+20	R134a+R404A+R407C+R410A	
		Rear	1/8" NPT	1123		-1+20	R417Avap/liq+R422Dvap/liq	
		Vertical	1/4" SAE	1137		-1+10	R290+R600a	
		Rear	1/8" NPT	1143		-1+10	R422D	
		Vertical	1/4" SAE	1227		-1+10	R134a+R404A+R507	
		Rear	1/8" NPT	2003		-1+10	R508B	
		Vertical	1/4" SAE	2005		-1+10	R22+R507+R407Fvap	
		Rear	1/8" NPT	2009		-1+10	R22+R407Cvap/liq	
Oil filled	Vertical	Vertical	1/4" SAE	2011	-30+290	-1+10	R407Avap/liq+R407Fvap/liq	
		Rear	1/8" NPT	2013		-1+10	R407Avap/liq+R407Fvap/liq	
		Vertical	1/4" SAE	2015		-1+20	R32+R410A	
		Rear	1/8" NPT	2019		-1+10	R134a+R507+R407F	
		Vertical	1/4" SAE	2025		-1+10	R134a+R404A+R407C+R407F	
		Rear	1/8" NPT	2027		-1+10	R134a+R404A+R407F	
		Vertical	1/4" SAE	2029		-1+10	R449A	
		Rear	1/8" NPT	2031		-1+10	R427	
Oil filled	Rear	Vertical	1/4" SAE	2033	-30+290	-1+10	R448A+R449A	
		Rear	1/8" NPT	2035		-1+20	R32+R410A+R134a+R407C	
		Vertical	1/4" SAE	2037		-1+10	R452a+R404A+R134a	
		Rear	1/8" NPT	2039		-1+10	R134a+R404A+R450A+R407F	
		Vertical	1/4" SAE	2041		-1+10	R448A+R449A+R407F	
		Rear	1/8" NPT	2043		-1+10	R1234yf+R1234ze+R134a	
		Vertical	1/4" SAE	2045		-1+20	R32+R410A+R407C	
		Rear	1/8" NPT	2049		-1+10	R452a+R513A	
Oil filled	Vertical	Vertical	1/4" SAE	2051	-30+290	-1+20	R32	
		Rear	1/8" NPT	2053		-1+10	R449A+R450A+R452A+R513A	
		Vertical	1/4" SAE	2057		-1+10	R448A+R449A+R450A+R452A	
		Rear	1/8" NPT	2059		-1+20	R290	
		Vertical	1/4" SAE	2061		-1+10	R404A+R407F+R448A	
		Rear	1/8" NPT	2063		-1+10	R448A+R449A+R452A+R404A	
		Vertical	1/4" SAE	2065		-1+10	R134a+R404A+R449A+R507A	
		Rear	1/8" NPT	2067		-1+10	R442A+R452A	
Oil filled	Rear	Vertical	1/4" SAE	2069	-30+290	-1+10	R407Cvap/liq	
		Rear	1/8" NPT	2071		-1+10	R134A+R513a	
		Vertical	1/4" SAE	2073		-1+10	R134a+R404A+R448A+R452A	
		Rear	1/8" NPT	2075		-1+10	R134a+R448A+R452A+R455A	
		Vertical	1/4" SAE	2077		-1+10	R454C	
		Rear	1/8" NPT	2079		-1+20	R134a+R513A+R410A+R448A	
		Vertical	1/4" SAE	2081		-1+20	R407Cvap/liq	
		Rear	1/8" NPT	2083		-1+10	R407C+R449A+R407F+R134a	
Oil filled	Vertical	Vertical	1/4" SAE	2085	-30+290	-1+10	R515B+R1234yf+R1234ze+R134a	
		Rear	1/8" NPT	2089		-1+10	R134a+R450A+R513A	



Version	Low Pressure Outlet	Fitting	Reference Case	Dial	Pressure psi	bar	Refrigerants
Dry	Vertical	1/4" SAE	MA0601V14S		-30+140	-1+10	R12+R22+R502
		1/8" NPT	MA0601V18B				
	Rear	1/4" SAE	MA0601A14S				
		1/8" NPT	MA0601A18B				
	Oil filled	Vertical	1/4" SAE				
		1/8" NPT	MA1001V14S				
		1/4" SAE	MA1001V18B				
		1/8" NPT	MA1001A14S				
		Vertical	MA1001A18B				
		5992					
		6060					
		6070					
	Rear	6125					
		6171					
		6186					
		6685					
		6702					
		7074					
		7076					
		7126					
		7216					
		7272					
		7290					
		7345					
		7366					
		7496					
		7540					
		7552					
		8006					

Version	Outlet	Fitting	Reference Case	Dial	Pressure psi	bar	Refrigerant
Oil filled	Vertical	1/4" SAE	MA0501V14S		0+10	0+16	R134a+R404A+R407F
		1/8" NPT	MA0501V18B				
	Rear	1/4" SAE	MA0501A14S				
		1/8" NPT	MA0501A18B				
		0010					
		6355					
		0030					
		2055					
		2056					

How to read the tables? The complete designation of a pressure gauge comprises the reference of the casing, followed by the reference of the dial. E.g.: Pressure gauge diameter 60mm aluminium, oil filled, rear outlet, 1/4"SAE, -1+10bar / R134a+R404A+R407F, Case: MA1001A14S; Dial: 2027; Reference: MA1001A14S-2027

## Blondelle Pressure Gauge, Ø60, Aluminium, HP



- Class 1
- 'A Lame Acier' unique bellow mechanism, the highest durability and accuracy
- All combinations of refrigerants possible
- Each gauge calibrated individually
- Aluminium case
  
- Admissible overload: 200%
- Possibility to adjust the needle
- Dry or oil filled
- Outlet: vertical or rear
- Fitting: 1/4" SAE or 1/8" NPT

High Pressure Version	Outlet	Fitting	Reference Case	Dial	Pressure psi	bar	Refrigerants
Dry	Vertical	1/4" SAE	MA0601V14S	-30+650	-1+30	R507+R404A+R407Cvap/liq	
		1/8" NPT	MA0601V18B				
	Rear	1/4" SAE	MA0601A14S		-1+30	R404A+R407Cvap/liq+R134a	
		1/8" NPT	MA0601A18B		-1+30	R134a+R407Cvap/liq	
		1/4" SAE	MA1001V14S		-1+45	R410A	
		1/8" NPT	MA1001V18B		-1+45	R410A+R22+R134a+R407C	
		1/4" SAE	MA1001A14S		-1+45	R744	
		1/8" NPT	MA1001A18B		-1+45	R407Cvap/liq+R410A	
Oil filled	Vertical	1002	1006		-1+45	R134a+R404A+R410A+R22	
		1004	1018		-1+45	R407Cvap/liq+R410A+R22	
		1006	1024		-1+45	R407Cvap/liq+R410A+R22	
		1018	1029		-1+45	R134a+R404A+R407C+R410A	
		1024	1032		-1+45	R417Avap/liq+R422Dvap/liq	
	Rear	1029	1036		-1+45	R290+R600a	
		1032	1038		-1+45	R422D	
		1036	1124		-1+45	R134a+R404A+R507	
		1038	1138		-1+45	R508B	
		1124	1144		-1+45	R22+R507+R407Fvap	
		1138	1228		-1+45	R22+R407Cvap/liq	
		1144	2004		-1+45	R407Avap/liq+R407Fvap/liq	
		1228	2006		-1+45	R134a+R404A+R410A	
		2004	2010		-1+45	R134a+R507+R407F	
		2006	2012		-1+45	R134a+R404A+R407C+R407F	
		2010	2014		-1+45	R134a+R404A+R407F	
		2012	2016		-1+45	R22+R507+R407Fvap	
		2014	2020		-1+45	R22+R407Cvap/liq	
		2016	2026		-1+45	R407Avap/liq+R407Fvap/liq	
		2020	2026		-1+45	R134a+R404A+R450A+R407F	
		2026	2028		-1+45	R134a+R404A+R407F	
		2028	2030		-1+45	R449A	
		2030	2032		-1+45	R427	
		2032	2034		-1+45	R448A+R449A	
		2034	2036		-1+45	R32+R410A+R134a+R407C	
		2036	2038		-1+45	R452a+R404A+R134a	
		2038	2040		-1+45	R134a+R404A+R450A+R407F	
		2040	2042		-1+45	R448A+R449A+R407F	
		2042	2044		-1+45	R1234yf+R1234ze+R134a	
		2044	2046		-1+45	R32+R410A+R407C	
		2046	2050		-1+45	R452a+R513A	
		2050	2052		-1+45	R32	
		2052	2054		-1+45	R449A+R450A+R452A+R513A	
		2054	2058		-1+45	R448A+R449A+R450A+R452A	
		2058	2060		-1+45	R290	
		2060	2062		-1+45	R404A+R407F+R448A	
		2062	2064		-1+45	R448A+R449A+R452A+R404A	
		2064	2066		-1+45	R134A+R404A+R449A+R507A	
		2066	2068		-1+45	R442A+R452A	
		2068	2070		-1+45	R134A+R513A	
		2070	2072		-1+45	R134a+R404A+R448A+R452A	
		2072	2074		-1+45	R134a+R448A+R452A+R455A	
		2074	2076		-1+45	R454C	
		2076	2078		-1+45	R134a+R513A+R410A+R448A	
		2078	2080		-1+45	R407C+R449A+R407F+R134a	
		2080	2084		-1+45	R515B+R1234yf+R1234ze+R134a	
		2084	2086		-1+45	R134a+R450A+R513A	
		2086	2090		-1+45	R290	
		2090	2092		-1+45	R134a+R404A+R449A+R507A	



High Pressure Version	Outlet	Fitting	Reference Case	Dial	Pressure psi	bar	Refrigerants
Dry	Vertical	1/4" SAE	MA0601V14S	5993 6061 6071 6126 6175 6188 6686 6703 7075 7077 7127 7217 7273 7291 7346 7367 7497 7541 7553 8007	-30+400	-1+30	R12+R22+R502
		1/8" NPT	MA0601V18B		-30+400	-1+30	R134a
		1/4" SAE	MA0601A14S		-30+400	-1+30	R12+R22+R502
		1/8" NPT	MA0601A18B		-30+400	-1+30	R22+R134a
		1/4" SAE	MA1001V14S		-30+400	-1+30	R134a
	Rear	1/8" NPT	MA1001V18B		-30+400	-1+30	R22+R134a
		1/4" SAE	MA1001A14S		-30+400	-1+30	R134a+R404A
		1/8" NPT	MA1001A18B		-30+400	-1+30	R134a+R404A
		1/4" SAE	MA1001V14S		-30+400	-1+30	R22+R134a+R404A
		1/8" NPT	MA1001V18B		-30+400	-1+30	R22+R134a+R404A

Version	Outlet	Fitting	Reference Case	Dial	Pressure psi	bar	Refrigerant
Oil filled	Vertical	1/4" SAE	MA0501V14S	0010 6355 0030 2055 2056	0+10 0+16 0+30 -1+45 -1+50	0+10 0+16 0+30 -1+45 -1+50	
		1/8" NPT	MA0501V18B				
		1/4" SAE	MA0501A14S				
		1/8" NPT	MA0501A18B				
		1/4" SAE	MA0501V14S				
	Rear	1/8" NPT	MA0501V18B				
		1/4" SAE	MA0501A14S				
		1/8" NPT	MA0501A18B				
		1/4" SAE	MA0501V14S				
		1/8" NPT	MA0501V18B				

How to read the tables? The complete designation of a pressure gauge comprises the reference of the casing, followed by the reference of the dial. E.g.: Pressure gauge diameter 60mm aluminium, oil filled, rear outlet, 1/4"SAE, -1+10bar / R134a+R404A+R407F, Case: MA1001A14S; Dial: 2027; Reference: MA1001A14S-2027

## Blondelle Pressure Gauge, Ø 60, Composite, LP



- Class 1
- 'A Lame Acier' unique bellow mechanism, the highest durability and accuracy
- All combinations of refrigerants possible
- Each gauge calibrated individually
- high quality composite casing
  
- Admissible overload: 200%
- Possibility to adjust the needle
- Dry or oil filled
- Outlet: vertical or rear
- Fitting: 1/4" SAE or 1/8" NPT

Version	Low Pressure Version	Outlet	Fitting	Reference Case	Dial	Pressure psi	bar	Refrigerants
Dry	Vertical	Vertical	1/4" SAE	MA0602V14S	1001 1003 1005 1015 1017 1023 1031 1035 1037 1123 1137 1143 1227 2003 2005 2009 2011 2013 2015 2019 2025 2027 2029 2031 2033 2035 2037 2039 2041 2043 2045 2049 2051 2053 2057 2059 2061 2063 2065 2067 2069 2071 2073 2075 2077 2079 2081 2083 2085 2089	-30+290	-1+10	R507+R404A+R407Cvap/liq
		Rear	1/8" NPT	MA0602V18B		-1+10	R404A+R407Cvap/liq+R134a	
		Vertical	1/4" SAE	MA0602A14S		-1+10	R134a+R407Cvap/liq	
		Rear	1/8" NPT	MA0602A18B		-1+30	R744	
		Vertical	1/4" SAE	MA1002V14S		-1+20	R410A	
		Rear	1/8" NPT	MA1002V18B		-1+20	R410A+R22+R134a+R407C	
		Vertical	1/4" SAE	MA1002A14S		-1+20	R407Cvap/liq+R410A	
		Rear	1/8" NPT	MA1002A18B		-1+20	R134a+R404A+R410A+R22	
		Vertical	1/4" SAE	MA0602V14S		-1+20	R407Cvap/liq+R410A+R22	
		Rear	1/8" NPT	MA0602V18B		-1+20	R134a+R404A+R407C+R410A	
Oil filled	Oil filled	Oil filled	Oil filled	1001 1003 1005 1015 1017 1023 1031 1035 1037 1123 1137 1143 1227 2003 2005 2009 2011 2013 2015 2019 2025 2027 2029 2031 2033 2035 2037 2039 2041 2043 2045 2049 2051 2053 2057 2059 2061 2063 2065 2067 2069 2071 2073 2075 2077 2079 2081 2083 2085 2089	-30+290	-1+10	R417Avap/liq+R422Dvap/liq	
						-1+10	R290+R600a	
						-1+10	R422D	
						-1+10	R134a+R404A+R507	
						-1+10	R508B	
						-1+10	R22+R507+R407Fvap	
						-1+10	R22+R407Cvap/liq	
						-1+10	R407Avap/liq+R407Fvap/liq	
						-1+20	R32+R410A	
						-1+10	R134a+R507+R407F	
Dry	Dry	Dry	Dry	1001 1003 1005 1015 1017 1023 1031 1035 1037 1123 1137 1143 1227 2003 2005 2009 2011 2013 2015 2019 2025 2027 2029 2031 2033 2035 2037 2039 2041 2043 2045 2049 2051 2053 2057 2059 2061 2063 2065 2067 2069 2071 2073 2075 2077 2079 2081 2083 2085 2089	-30+290	-1+10	R134a+R404A+R407C+R407F	
						-1+10	R134a+R404A+R407F	
						-1+10	R449A	
						-1+10	R427	
						-1+10	R448A+R449A	
						-1+20	R32+R410A+R134a+R407C	
						-1+10	R452a+R404A+R134a	
						-1+10	R134a+R404A+R450A+R407F	
						-1+10	R448A+R449A+R407F	
						-1+10	R1234yf+R1234ze+R134a	
Oil filled	Oil filled	Oil filled	Oil filled	1001 1003 1005 1015 1017 1023 1031 1035 1037 1123 1137 1143 1227 2003 2005 2009 2011 2013 2015 2019 2025 2027 2029 2031 2033 2035 2037 2039 2041 2043 2045 2049 2051 2053 2057 2059 2061 2063 2065 2067 2069 2071 2073 2075 2077 2079 2081 2083 2085 2089	-30+290	-1+20	R32+R410A+R407C	
						-1+10	R452a+R513A	
						-1+20	R32	
						-1+10	R449A+R450A+R452A+R513A	
						-1+10	R448A+R449A+R450A+R452A	
						-1+20	R290	
						-1+10	R404A+R407F+R448A	
						-1+10	R448A+R449A+R452A+R404A	
						-1+10	R134A+R404A+R449A+R507A	
						-1+10	R442A+R452A	
Dry	Dry	Dry	Dry	1001 1003 1005 1015 1017 1023 1031 1035 1037 1123 1137 1143 1227 2003 2005 2009 2011 2013 2015 2019 2025 2027 2029 2031 2033 2035 2037 2039 2041 2043 2045 2049 2051 2053 2057 2059 2061 2063 2065 2067 2069 2071 2073 2075 2077 2079 2081 2083 2085 2089	-30+290	-1+10	R407Cvap/liq	
						-1+10	R134A+R513a	
						-1+10	R134a+R404A+R448A+R452A	
						-1+10	R134a+R448A+R452A+R455A	
						-1+10	R454C	
						-1+20	R134a+R513A+R410A+R448A	
						-1+20	R407Cvap/liq	
						-1+10	R407C+R449A+R407F+R134a	
						-1+10	R515B+R1234yf+R1234ze+R134a	
						-1+10	R134a+R450A+R513A	



Version	Low Pressure Outlet	Fitting	Reference Case	Dial	Pressure psi	bar	Refrigerants
Dry	Vertical	1/4" SAE 1/8" NPT	MA0602V14S MA0602V18B				
	Rear	1/4" SAE 1/8" NPT	MA0602A14S MA0602A18B				
Oil filled	Vertical	1/4" SAE 1/8" NPT	MA1002V14S MA1002V18B				
	Rear	1/4" SAE 1/8" NPT	MA1002A14S MA1002A18B	5992 6060 6070 6125 6171 6186 6685 6702 7074 7076 7126 7216 7272 7290 7345 7366 7496 7540 7552 8006	-30+140 -30+140 -30+140 -30+140 -30+140 -30+140 -30+140 -30+140 -30+140 -30+140 -30+140 -30+140 -30+140 -30+140 -30+140 -30+140 -30+140 -30+140 -30+140 -30+140	-1+10 -1+10 -1+10 -1+10 -1+10 -1+10 -1+10 -1+10 -1+10 -1+10 -1+10 -1+10 -1+10 -1+10 -1+10 -1+10 -1+10 -1+10 -1+10 -1+10	R12+R22+R502 R134a R12+R22+R502 R22+R134a R134a R22+R134a R134a+R404A R134a+R404A R22+R134a+R404A R22+R134a+R404A R290+R600A R134a+R404A+R507+R407C R22+R134a+R407C R23 R134a+R404A+R22+R407C R407Cvap/liq R507+R407Cvap/liq R134a+R22+R407Cvap/liq R134a+R22+R404A+R507 R410A

Version	Outlet	Fitting	Reference Case	Dial	Pressure psi	bar	Refrigerant
Oil filled	Vertical	1/4" SAE 1/8" NPT	MA0502V14S MA0502V18B				
	Rear	1/4" SAE 1/8" NPT	MA0502A14S MA0502A18B	0010 6355 0030 2055 2056		0+10 0+16 0+30 -1+45 -1+50	

How to read the tables? The complete designation of a pressure gauge comprises the reference of the casing, followed by the reference of the dial. E.g.: Pressure gauge diameter 60mm composite, oil filled, rear outlet, 1/4"SAE, -1+10bar / R134a+R404A+R407F, Case: MA1002A14S; Dial: 2027; Reference: MA1002A14S-2027

## Blondelle Pressure Gauge, Ø 60, Composite, HP



- Class 1
- 'A Lame Acier' unique bellow mechanism, the highest durability and accuracy
- All combinations of refrigerants possible
- Each gauge calibrated individually
- high quality composite casing
  
- Admissible overload: 200%
- Possibility to adjust the needle
- Dry or oil filled
- Outlet: vertical or rear
- Fitting: 1/4" SAE or 1/8" NPT

High Pressure			Reference	Pressure			Refrigerants
Version	Outlet	Fitting	Case	Dial	psi	bar	
Dry	Vertical	1/4" SAE	MA0602V14S	-30+650	1002	-1+30	R507+R404A+R407Cvap/liq
		1/8" NPT	MA0602V18B			-1+30	R404A+R407Cvap/liq+R134a
	Rear	1/4" SAE	MA0602A14S			-1+30	R134a+R407Cvap/liq
		1/8" NPT	MA0602A18B			-1+45	R410A
		1/4" SAE	MA1002V14S			-1+45	R410A+R22+R134a+R407C
		1/8" NPT	MA1002V18B			-1+50	R744
		1/4" SAE	MA1002A14S			-1+45	R407Cvap/liq+R410A
		1/8" NPT	MA1002A18B			-1+45	R134a+R404A+R410A+R22
Oil filled	Vertical	1004				-1+45	R407Cvap/liq+R410A+R22
		1006				-1+45	R134a+R404A+R410A+R22
	Rear	1018				-1+45	R134a+R404A+R407C+R410A
		1024				-1+30	R417Avap/liq+R422Dvap/liq
		1029				-1+30	R290+R600a
		1032				-1+30	R422D
		1036				-1+30	R134a+R404A+R507
		1038				-1+30	R508B
		1124				-1+30	R22+R507+R407Fvap
		1138				-1+30	R22+R407Cvap/liq
Vertical	Rear	1144				-1+30	R407Avap/liq+R407Fvap/liq
		1228				-1+30	R407Avap/liq+R407Fvap/liq
		2004				-1+30	R32+R410A
		2006				-1+30	R134a+R507+R407F
		2010				-1+30	R134a+R404A+R407C+R407F
		2012				-1+30	R134a+R404A+R407F
		2014				-1+30	R448A+R449A+R407F
		2016				-1+30	R1234yf+R1234ze+R134a
		2020				-1+30	R32+R410A+R407C
		2026				-1+30	R452A+R513A
		2028				-1+30	R32
		2030				-1+30	R449A
		2032				-1+30	R427
		2034				-1+30	R448A+R449A
		2036				-1+45	R32+R410A+R134a+R407C
		2038				-1+30	R452a+R404A+R134a
		2040				-1+30	R134a+R404A+R450A+R407F
		2042				-1+30	R448A+R449A+R407F
		2044				-1+30	R1234yf+R1234ze+R134a
		2046				-1+30	R32+R410A+R407C
		2050				-1+30	R452A+R513A
		2052				-1+45	R290
		2054				-1+30	R404A+R407F+R448A
		2058				-1+30	R448A+R449A+R452A+R404A
		2060				-1+30	R404A+R407F+R448A
		2062				-1+30	R448A+R449A+R452A+R404A
		2064				-1+30	R134A+R404A+R449A+R507A
		2066				-1+30	R442A+R452A
		2068				-1+30	R134A+R513a
		2072				-1+30	R134a+R404A+R448A+R452A
		2074				-1+30	R134a+R404A+R448A+R452A
		2076				-1+30	R134a+R448A+R452A+R455A
		2078				-1+30	R454C
		2080				-1+45	R134a+R513A+R410A+R448A
		2084				-1+30	R407C+R449A+R407F+R134a
		2086				-1+30	R515B+R1234yf+R1234ze+R134a
		2090				-1+30	R134a+R450A+R513A
		2092				-1+45	R290



High Pressure			Reference		Pressure		Refrigerants
Version	Outlet	Fitting	Case	Dial	psi	bar	
Dry	Vertical	1/4" SAE	MA0602V14S	5993 6061 6071 6126 6175 6188 6686 6703 7075 7077 7127 7217 7273 7291 7346 7367 7497 7541 7553 8007	-30+400	-1+30	R12+R22+R502
		1/8" NPT	MA0602V18B		-30+400	-1+30	R134a
		Rear	MA0602A14S		-30+400	-1+30	R12+R22+R502
		1/4" SAE	MA0602A18B		-30+400	-1+30	R22+R134a
		1/8" NPT	MA1002V14S		-30+400	-1+30	R134a
	Vertical	1/4" SAE	MA1002V18B		-30+400	-1+30	R22+R134a
		1/8" NPT	MA1002A14S		-30+400	-1+30	R134a+R404A
		Rear	MA1002A18B		-30+400	-1+30	R134a+R404A
		1/4" SAE	MA1002V14S		-30+400	-1+30	R22+R134a+R404A
		1/8" NPT	MA1002V18B		-30+400	-1+30	R22+R134a+R404A
Oil filled	Vertical	1/4" SAE	MA1002A14S	5993 6061 6071 6126 6175 6188 6686 6703 7075 7077 7127 7217 7273 7291 7346 7367 7497 7541 7553 8007	-30+400	-1+30	R290+R600A
		1/8" NPT	MA1002A18B		-30+400	-1+30	R134a+R404A+R507+R407C
		Rear	MA1002A14S		-30+400	-1+30	R22+R134a+R407C
		1/4" SAE	MA1002A18B		-30+400	-1+30	R23
		1/8" NPT	MA1002V14S		-30+400	-1+30	R134a+R404A+R22+R407C
		Rear	MA1002V18B		-30+400	-1+30	R407Cvap/liq
		1/4" SAE	MA1002A14S		-30+400	-1+30	R507+R407Cvap/liq
		1/8" NPT	MA1002A18B		-30+400	-1+30	R134a+R22+R407Cvap/liq
		Rear	MA1002V14S		-30+400	-1+30	R134a+R22+R404A+R507
		1/4" SAE	MA1002V18B		-30+400	-1+45	R410A

Version	Outlet	Fitting	Reference Case	Dial	Pressure psi	bar	Refrigerant
Oil filled	Vertical	1/4" SAE 1/8" NPT	MA0502V14S MA0502V18B				
	Rear	1/4" SAE 1/8" NPT	MA0502A14S MA0502A18B	0010 6355 0030 2055 2056	0+10 0+16 0+30 -1+45 -1+50		

How to read the tables? The complete designation of a pressure gauge comprises the reference of the casing, followed by the reference of the dial. E.g.: Pressure gauge diameter 60mm composite, oil filled, rear outlet, 1/4"SAE, -1+10bar / R134a+R404A+R407F, Case: MA1002A14S; Dial: 2027; Reference: MA1002A14S-2027

# Blondelle Pressure Gauge, Ø 80, Composite, LP

p.1/2



- Class 1
- 'A Lame Acier' unique bellow mechanism, the highest durability and accuracy
- All combinations of refrigerants possible
- Each gauge calibrated individually, Possibility to adjust the needle
  
- High quality composite casing
- Admissible overload: 200%
- Dry , oil filled or pulse-free
- Outlet: vertical or rear, fitting: 1/4" SAE or 1/8" NPT

Low Pressure Version	Outlet	Fitting	Reference Case	Dial	Pressure psi	Pressure bar	Refrigerants		
Dry	Vertical	1/4" SAE	MA0603V14S	1051 1055 1057 1065 1067 1073 1085 1087 1099 1155 1173 1179 3001 3003 3005 3009 3012 3013 3023 3025 3027 3029 3031 3033 3037 3039 3041 3043 3045 3049 3053 3055 3057 3059 3061 3063 3067 3069 3071 3073 3077 3079 3081 3083 3085 3087 3089 3091 3093 3095	1/4" GAZ	MA0603V14G	-30+400	-1+10	R507+R404A+R407Cvap/liq
		1/8" NPT	MA0603V18B		-1+10	R22+R417vap/liq			
	Rear	1/4" SAE	MA0603A14S		-1+10	R22+R410A (°F)			
		1/4" GAZ	MA0603A14G		-1+30	R744			
	Vertical	1/8" NPT	MA0603A18B		-1+10	R1270			
		1/4" SAE	MA1003V14S		-1+20	R410A+R22+R134a+R407C			
Oil filled	Vertical	1/4" GAZ	MA1003V14G	-30+1200	-1+20	R134a+R404A+R410A+R22			
		1/8" NPT	MA1003V18B		-1+20	R407Cvap/liq+R410A+R22			
	Rear	1/4" SAE	MA1003A14S		-1+80	R744 (Transcritical)			
		1/4" GAZ	MA1003A14G		-1+100	R744 (Transcritical)			
	Vertical	1/8" NPT	MA1003A18B		-1+20	R410A+R407C+R404A+R134a			
		1/4" SAE	MA0901V14S		-1+10	R422D+R422A+R417A			
Pulse-free	Vertical	1/4" GAZ	MA0901V14G		-1+20	R422D			
		1/8" NPT	MA0901V18B		-1+10	R134a+R404A+R407F			
	Rear	1/4" SAE	MA0901A14S		-1+10	R22+R290+R600A			
		1/4" GAZ	MA0901A14G		-1+80	R744 (Transcritical)			
	Vertical	1/8" NPT	MA0901A18B		-1+10	R422D			
		1/4" SAE	MA0901V14S		-1+10	R134a+R404A+R407F			
		1/4" GAZ	MA0901V14G		-1+10	R22+R290+R600A			
		1/8" NPT	MA0901V18B		-1+10	R744 (Transcritical)			
		1/4" SAE	MA0901A14S		-1+10	R422D			
		1/4" GAZ	MA0901A14G		-1+10	R134a+R404A+R407F			
		1/8" NPT	MA0901A18B		-1+10	R422D			
		1/4" SAE	MA0901V14S		-1+10	R134a+R404A+R407F			
		1/4" GAZ	MA0901V14G		-1+10	R22+R290+R600A			
		1/8" NPT	MA0901V18B		-1+10	R744 (Transcritical)			
		1/4" SAE	MA0901A14S		-1+10	R422D			
		1/4" GAZ	MA0901A14G		-1+10	R134a+R404A+R407F			
		1/8" NPT	MA0901A18B		-1+10	R422D			
		1/4" SAE	MA0901V14S		-1+10	R134a+R404A+R407F			
		1/4" GAZ	MA0901V14G		-1+10	R22+R290+R600A			
		1/8" NPT	MA0901V18B		-1+10	R744 (Transcritical)			
		1/4" SAE	MA0901A14S		-1+10	R422D			
		1/4" GAZ	MA0901A14G		-1+10	R134a+R404A+R407F			
		1/8" NPT	MA0901A18B		-1+10	R422D			
		1/4" SAE	MA0901V14S		-1+10	R134a+R404A+R407F			
		1/4" GAZ	MA0901V14G		-1+10	R22+R290+R600A			
		1/8" NPT	MA0901V18B		-1+10	R744 (Transcritical)			
		1/4" SAE	MA0901A14S		-1+10	R422D			
		1/4" GAZ	MA0901A14G		-1+10	R134a+R404A+R407F			
		1/8" NPT	MA0901A18B		-1+10	R422D			
		1/4" SAE	MA0901V14S		-1+10	R134a+R404A+R407F			
		1/4" GAZ	MA0901V14G		-1+10	R22+R290+R600A			
		1/8" NPT	MA0901V18B		-1+10	R744 (Transcritical)			
		1/4" SAE	MA0901A14S		-1+10	R422D			
		1/4" GAZ	MA0901A14G		-1+10	R134a+R404A+R407F			
		1/8" NPT	MA0901A18B		-1+10	R422D			
		1/4" SAE	MA0901V14S		-1+10	R134a+R404A+R407F			
		1/4" GAZ	MA0901V14G		-1+10	R22+R290+R600A			
		1/8" NPT	MA0901V18B		-1+10	R744 (Transcritical)			
		1/4" SAE	MA0901A14S		-1+10	R422D			
		1/4" GAZ	MA0901A14G		-1+10	R134a+R404A+R407F			
		1/8" NPT	MA0901A18B		-1+10	R422D			
		1/4" SAE	MA0901V14S		-1+10	R134a+R404A+R407F			
		1/4" GAZ	MA0901V14G		-1+10	R22+R290+R600A			
		1/8" NPT	MA0901V18B		-1+10	R744 (Transcritical)			
		1/4" SAE	MA0901A14S		-1+10	R422D			
		1/4" GAZ	MA0901A14G		-1+10	R134a+R404A+R407F			
		1/8" NPT	MA0901A18B		-1+10	R422D			
		1/4" SAE	MA0901V14S		-1+10	R134a+R404A+R407F			
		1/4" GAZ	MA0901V14G		-1+10	R22+R290+R600A			
		1/8" NPT	MA0901V18B		-1+10	R744 (Transcritical)			
		1/4" SAE	MA0901A14S		-1+10	R422D			
		1/4" GAZ	MA0901A14G		-1+10	R134a+R404A+R407F			
		1/8" NPT	MA0901A18B		-1+10	R422D			
		1/4" SAE	MA0901V14S		-1+10	R134a+R404A+R407F			
		1/4" GAZ	MA0901V14G		-1+10	R22+R290+R600A			
		1/8" NPT	MA0901V18B		-1+10	R744 (Transcritical)			
		1/4" SAE	MA0901A14S		-1+10	R422D			
		1/4" GAZ	MA0901A14G		-1+10	R134a+R404A+R407F			
		1/8" NPT	MA0901A18B		-1+10	R422D			
		1/4" SAE	MA0901V14S		-1+10	R134a+R404A+R407F			
		1/4" GAZ	MA0901V14G		-1+10	R22+R290+R600A			
		1/8" NPT	MA0901V18B		-1+10	R744 (Transcritical)			
		1/4" SAE	MA0901A14S		-1+10	R422D			
		1/4" GAZ	MA0901A14G		-1+10	R134a+R404A+R407F			
		1/8" NPT	MA0901A18B		-1+10	R422D			
		1/4" SAE	MA0901V14S		-1+10	R134a+R404A+R407F			
		1/4" GAZ	MA0901V14G		-1+10	R22+R290+R600A			
		1/8" NPT	MA0901V18B		-1+10	R744 (Transcritical)			
		1/4" SAE	MA0901A14S		-1+10	R422D			
		1/4" GAZ	MA0901A14G		-1+10	R134a+R404A+R407F			
		1/8" NPT	MA0901A18B		-1+10	R422D			
		1/4" SAE	MA0901V14S		-1+10	R134a+R404A+R407F			
		1/4" GAZ	MA0901V14G		-1+10	R22+R290+R600A			
		1/8" NPT	MA0901V18B		-1+10	R744 (Transcritical)			
		1/4" SAE	MA0901A14S		-1+10	R422D			
		1/4" GAZ	MA0901A14G		-1+10	R134a+R404A+R407F			
		1/8" NPT	MA0901A18B		-1+10	R422D			
		1/4" SAE	MA0901V14S		-1+10	R134a+R404A+R407F			
		1/4" GAZ	MA0901V14G		-1+10	R22+R290+R600A			
		1/8" NPT	MA0901V18B		-1+10	R744 (Transcritical)			
		1/4" SAE	MA0901A14S		-1+10	R422D			
		1/4" GAZ	MA0901A14G		-1+10	R134a+R404A+R407F			
		1/8" NPT	MA0901A18B		-1+10	R422D			
		1/4" SAE	MA0901V14S		-1+10	R134a+R404A+R407F			
		1/4" GAZ	MA0901V14G		-1+10	R22+R290+R600A			
		1/8" NPT	MA0901V18B		-1+10	R744 (Transcritical)			
		1/4" SAE	MA0901A14S		-1+10	R422D			
		1/4" GAZ	MA0901A14G		-1+10	R134a+R404A+R407F			
		1/8" NPT	MA0901A18B		-1+10	R422D			
		1/4" SAE	MA0901V14S		-1+10	R134a+R404A+R407F			
		1/4" GAZ	MA0901V14G		-1+10	R22+R290+R600A			
		1/8" NPT	MA0901V18B		-1+10	R744 (Transcritical)			
		1/4" SAE	MA0901A14S		-1+10	R422D			
		1/4" GAZ	MA0901A14G		-1+10	R134a+R404A+R407F			
		1/8" NPT	MA0901A18B		-1+10	R422D			
		1/4" SAE	MA0901V14S		-1+10	R134a+R404A+R407F			
		1/4" GAZ	MA0901V14G		-1+10	R22+R290+R600A			
		1/8" NPT	MA0901V18B		-1+10	R744 (Transcritical)			
		1/4" SAE	MA0901A14S		-1+10	R422D			
		1/4" GAZ	MA0901A14G		-1+10	R134a+R404A+R407F			
		1/8" NPT	MA0901A18B		-1+10	R422D			
		1/4" SAE	MA0901V14S		-1+10	R134a+R404A+R407F			
		1/4" GAZ	MA0901V14G		-1+10	R22+R290+R600A			
		1/8" NPT	MA0901V18B		-1+10	R744 (Transcritical)			
		1/4" SAE	MA0901A14S		-1+10	R422D			
		1/4" GAZ	MA0901A14G		-1+10	R134a+R404A+R407F			
		1/8" NPT	MA0901A18B		-1+10	R422D			
		1/4" SAE	MA0901V14S		-1+10	R134a+R404A+R407F			
		1/4" GAZ	MA0901V14G		-1+10	R22+R290+R600A			
		1/8" NPT	MA0901V18B		-1+10	R744 (Transcritical)			
		1/4" SAE	MA0901A14S		-1+10	R422D			
		1/4" GAZ	MA0901A14G		-1+10	R134a+R404A+R407F			
		1/8" NPT	MA0901A18B		-1+10	R422D			
		1/4" SAE	MA0901V14S		-1+10	R134a+R404A+R407F			
		1/4" GAZ	MA0901V14G		-1+10	R22+R290+R600A			
		1/8" NPT	MA0901V18B		-1+10	R744 (Transcritical)			



Low Pressure Version	Outlet	Fitting	Reference Case	Dial	Pressure psi	bar	Refrigerants
Dry	Vertical	1/4" SAE	MA0603V14S				
		1/4" GAZ	MA0603V14G				
		1/8" NPT	MA0603V18B				
		1/4" SAE	MA0603A14S				
		1/4" GAZ	MA0603A14G				
	Rear	1/8" NPT	MA0603A18B				
		1/4" SAE	MA1003V14S				
		1/4" GAZ	MA1003V14G				
		1/8" NPT	MA1003V18B				
		1/4" SAE	MA1003A14S				
Oil filled	Vertical	1/4" GAZ	MA1003A14G				
		1/8" NPT	MA1003A18B				
		1/4" SAE	MA1003V14S				
		1/4" GAZ	MA1003V14G				
		1/8" NPT	MA1003V18B				
	Rear	1/4" SAE	MA1003A14S				
		1/4" GAZ	MA1003A14G				
		1/8" NPT	MA1003A18B				
		1/4" SAE	MA0901V14S				
		1/4" GAZ	MA0901V14G				
Pulse-free	Vertical	1/8" NPT	MA0901V18B				
		1/4" SAE	MA0901A14S				
		1/4" GAZ	MA0901A14G				
		1/8" NPT	MA0901A18B				
		3097			-1+10	R404A+R449A+R452A+R134a	
	Rear	3099			-1+10	R449A+R452+R513+1234yf	
		3101			-1+10	R449A+R450A+R452A+R513A	
		3103			-1+20	R449Avap/liq+R448Avap/liq	
		3105			-1+20	R407A+R449A+R410A	
		3107			-1+10	R448A+R449A+R452A+R455A	
Pulse-free	Vertical	3109			-1+20	R410A+R134a+R407C	
		3111			-1+20	R32+R410A+R407C	
		3113			-1+10	R404A+R448A+R449A+R134a	
		3115			-1+20	R449A+R450A+R452A+R513A	
		3117			-1+10	R1234yf+R134a+R407C+R513A	
	Rear	3119			-1+20	R404A+R452A+R134a+R410A	
		3121			-1+20	R32+R290+R600a	
		3123			-1+20	R410A+R404A+R448A+R134a	
		3125			-1+10	R442A+R134a+R404A	
		3127			-1+10	R449A	
Pulse-free	Vertical	3129			-1+10	R1234yf+R134a+R513A	
		3131			-1+10	R134a+R404A+R449A+R448A+R452A	
		3133			-1+10	R1234yf+R32+R407C+R134a	
		3137			-1+10	R22+R290+R600A	
		3139			-1+20	R449A+R452A+R32+R134a	
	Rear	3141			-1+10	R404A+R407F+R448A+R449A	
		3143			-1+20	R449A+R410A+R32+R134a	
		3145			-1+10	R1234yf+R1234ze+R134a+R513A	
		3147			-1+10	R414+R23	
		3149			-1+10	R134a+R448A+R452A+R455A	
Pulse-free	Vertical	3151			-1+10	R134a+R404A+R448A+R452A	
		3153			-1+10	R1234yf+R1234ze+R134a	
		3155			-1+10	R290+R22+R134a	
		3157			-1+10	R134a+R404A+R452A+R453A	
		3159			-1+10	R134a+R450A+R452A+R513A	
	Rear	3161			-1+10	R448A+R449A+R450A+R513A	
		3165			-1+10	R245fa	
		3167			-1+20	R410A+R454B	
		3169			-1+20	R410A+R404A+R449A+R134a	
		3173			-1+20	R449A+R455A+R32+R410A	
Pulse-free	Vertical	3175			-1+10	R449A+R452A+R513A+R404A	
		3177			-1+20	R32+R134a+R407C+R404A	
		3179			-1+10	R513A	
		3181			-1+10	R454C	
		3183			-1+10	R290+R454C+R455A+R1234yf	
	Rear	3185			-1+10	R404A+R455Avap/liq+R454Cvap/liq	
		3187			-1+10	R1234yf+R134a+R450A+R513A	
		3189			-1+10	R1234zd(E)	
		3191			-1+10	R134a+R407C+R513A	
		3193			-1+10	R134a+R448A+R513A+R407C	
Pulse-free	Vertical	3195			-1+10	R452a	
		3197			-1+10	R454A+R454B+R454C+R404A	
		3199			-1+10	R1234yf+R1234ze+R454C+R455A	
		3201			-1+10	R32+R404A+R410A+R134a	
		3203			-1+10	R452B	
	Rear	3205			-1+10	R404A+R449A+R513A+R134a	
		3207			-1+10	R404A+R448A+R449A+R455A	
		3209			-1+10	R422Dvap/liq+R22	
		3211			-1+10	R1234yf+R452A+R134a	
		3213			-1+10	R515B	
Pulse-free	Vertical	3215			-1+20	R404A+R449A+R452A+R134a	
		3217			-1+10	R515B+R513B	
		3219			-1+10	R515B+R1234ze	

How to read the tables? The complete designation of a pressure gauge comprises the reference of the casing, followed by the reference of the dial. E.g.: Pressure gauge diameter 80mm composite, oil-filled, vertical outlet, 1/8"NPT, -1+45bar / R407C+R410A+R22: Case: MA1003V18B; Dial: 1088; Reference: MA1003V18B-1088

# Blondelle Pressure Gauge, Ø 80, Composite, LP

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- Class 1
- 'A Lame Acier' unique bellow mechanism, the highest durability and accuracy
- All combinations of refrigerants possible
- Each gauge calibrated individually, Possibility to adjust the needle
  
- High quality composite casing
- Admissible overload: 200%
- Dry , oil filled or pulse-free
- Outlet: vertical or rear, fitting: 1/4" SAE or 1/8" NPT

Low Pressure Version	Outlet	Fitting	Reference Case	Dial	Pressure psi	Pressure bar	Refrigerants
Dry	Vertical	1/4" SAE	MA0603V14S				
		1/4" GAZ	MA0603V14G				
	Rear	1/8" NPT	MA0603V18B				
		1/4" SAE	MA0603A14S				
	Vertical	1/4" GAZ	MA0603A14G				
		1/8" NPT	MA0603A18B				
Oil filled	Vertical	1/4" SAE	MA1003V14S				
		1/4" GAZ	MA1003V14G				
	Rear	1/8" NPT	MA1003V18B				
		1/4" SAE	MA1003A14S				
	Vertical	1/4" GAZ	MA1003A14G				
		1/8" NPT	MA1003A18B				
Pulse-free	Vertical	1/4" SAE	MA0901V14S				
		1/4" GAZ	MA0901V14G				
	Rear	1/8" NPT	MA0901V18B				
		1/4" SAE	MA0901A14S				
	Vertical	1/4" GAZ	MA0901A14G				
		1/8" NPT	MA0901A18B				
			4090 4092 5941 6072 6127 6172 6187 6607 6630 6704 7130 7279 7309 7312 7314 7341 7524 7526 7528 7530 7542 7554 7734 7805 8101 8137 8264	-30+140 -30+140	-1+10 -1+10	R409A R134a+R22+R409Avap/liq R12+R22+R502 R12+R22+R502 R22+R134a R134a R22+R134a R134a R134a+R404A R134a+R404A R290+R600A R23 R134a+R404A+R507+R407C R134a+R22+R404A R134a+R22+R404A R134a+R404A+R22+R407C R410A R134a+R404A+R22+R407C R134a+R404A+R407Cvap/liq R600A+Care 30vap/liq R290+Care 50vap/liq R134a+R22+R407Cvap/liq R134a+R22+R404A+R507 R22+R407Cvap/liq R22+R134a+R404A (°F) R12+R22+R502 (°F) R410A (°F) R134a+R407Cvap/liq	



Version	Outlet	Fitting	Reference Case	Dial	Pressure psi	bar	Refrigerants
Oil filled	Vertical  Rear	1/4" SAE 1/8" NPT 1/4" SAE 1/8" NPT	MA0503V14S MA0503V18B MA0503A14S MA0503A18B	6364 8010 3171 8030 3136 3135 3163	-30+290	0+16 0+10 -1+20 0+30 -1+45 -1+50 -1+60	

How to read the tables? The complete designation of a pressure gauge comprises the reference of the casing, followed by the reference of the dial. E.g.: Pressure gauge diameter 80mm composite, oil-filled, vertical outlet, 1/8"NPT, -1+45bar / R407C+R410A+R22: Case: MA1003V18B; Dial: 1088; Reference: MA1003V18B-1088

# Blondelle Pressure Gauge, Ø 80, Composite, HP

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- Class 1
- 'A Lame Acier' unique bellow mechanism, the highest durability and accuracy
- All combinations of refrigerants possible
- Each gauge calibrated individually, Possibility to adjust the needle
  
- High quality composite casing
- Admissible overload: 200%
- Dry , oil filled or pulse-free
- Outlet: vertical or rear, fitting: 1/4" SAE or 1/8" NPT

High Pressure Version	Outlet	Fitting	Reference Case	Dial	Pressure psi	bar	Refrigerants
Dry	Vertical	1/4" SAE	MA0603V14S		-30+800		R507+R404A+R407Cvap/liq R22+R417Cvap/liq R22+R410A (°F) R1270 R744 R410A+R22+R134a+R407C R134a+R404A+R410A+R22 R407Cvap/liq+R410A+R22 R744 (Transcritical) R410A+R407C+R404A+R134a R422D+R422A+R417A R774 R422D R134a+R404A+R407F R22+R290+R600A R744 (Transcritical) R32 R404A+R407A+R407F R1234yf+R134a+R1234ze R134a+R410A+R407C+R407F R134a+R404A+R407C+R407F R407A R404A+R407A+R407F+R449A R744 (Transcritical) R449A R434a R134a+R404A+R407A+R407F R32+R410A R404A+R508B R1234yf+R1234ze R290+R134a+R407C+R404A R448A+R449A R134a+R404A+R22+R449A R32+R410A+R134a+R407C R452a R134a+R404A+R407F+R449A R404A+R134a+R449A+R407C R448A+R449A+R407C R134a+R404A+R407F+R407C R452a+R404A+R134a R32+R410A+R407C+R404A R32+R410A+R407C R236fa+R227ea R744 R1234yf+R1234ze+R410A+R134a R448A+R449A+R450A+R407F R134a+R404A+R507A+R407C R448A+R449A+R450A+R407F R448A+R449A+R450A+R452A R449Avap/liq+R448Avap/liq
		1/4" GAZ	MA0603V14G				
		1/8" NPT	MA0603V18B				
	Rear	1/4" SAE	MA0603A14S				
		1/4" GAZ	MA0603A14G				
		1/8" NPT	MA0603A18B				
Oil filled	Vertical	1/4" SAE	MA1003V14S				
		1/4" GAZ	MA1003V14G				
		1/8" NPT	MA1003V18B				
	Rear	1/4" SAE	MA1003A14S				
		1/4" GAZ	MA1003A14G				
		1/8" NPT	MA1003A18B				
Pulse-free	Vertical	1/4" SAE	MA0901V14S				
		1/4" GAZ	MA0901V14G				
		1/8" NPT	MA0901V18B				
	Rear	1/4" SAE	MA0901A14S				
		1/4" GAZ	MA0901A14G				
		1/8" NPT	MA0901A18B				



High Pressure Version	Outlet	Fitting	Reference Case	Dial	Pressure psi	Pressure bar	Refrigerants
Dry	Vertical	1/4" SAE	MA0603V14S				
		1/4" GAZ	MA0603V14G				
		1/8" NPT	MA0603V18B				
	Rear	1/4" SAE	MA0603A14S				
		1/4" GAZ	MA0603A14G				
		1/8" NPT	MA0603A18B				
Oil filled	Vertical	1/4" SAE	MA1003V14S				
		1/4" GAZ	MA1003V14G				
		1/8" NPT	MA1003V18B				
	Rear	1/4" SAE	MA1003A14S				
		1/4" GAZ	MA1003A14G				
		1/8" NPT	MA1003A18B				
Pulse-free	Vertical	1/4" SAE	MA0901V14S				
		1/4" GAZ	MA0901V14G				
		1/8" NPT	MA0901V18B				
	Rear	1/4" SAE	MA0901A14S				
		1/4" GAZ	MA0901A14G				
		1/8" NPT	MA0901A18B				
			3098				
			3100				R404A+R449A+R452A+R134a
			3102				R449A+R452+R513+1234yf
			3104				R449A+R450A+R452A+R513A
			3106				R449Avap/liq+R448Avap/liq
			3108				R407A+R449A+R410A
			3110				R448A+R449A+R452A+R455A
			3112				R410A+R134a+R407C
			3114				R32+R410A+R407C
			3118				R404A+R448A+R449A+R134a
			3120				R1234yf+R134a+R407C+R513A
			3122				R404A+R452A+R134a+R410A
			3124				R32+R290+R600a
			3126				R410A+R404A+R448A+R134a
			3130				R442A+R134a+R404A
			3132				R1234yf+R134a+R513A
			3134				R134a+R404A+R449A+R448A+R452A
			3138				R1234yf+R32+R407C+R134a
			3140				R22+R290+R600A
			3142				R449A+R452A+R32+R134a
			3144				R404A+R407F+R448A+R449A
			3146				R449A+R410A+R32+R134a
			3148				R1234yf+R1234ze+R134a+R513A
			3150				R134a+R404A+R452A+R455A
			3152				R134a+R404A+R448A+R452A
			3154				R449A+R410A+R32+R134a
			3156				R1234yf+R1234ze+R134a
			3158				R290+R22+R134a
			3160				R134a+R404A+R452A+R513A
			3162				R448A+R449A+R450A+R513A
			3164				R134a
			3166				R245fa
			3168				R410A+R454B
			3170				R410A+R404A+R449A+R134a
			3174				R449A+R455A+R32+R410A
			3176				R449A+R452A+R513A+R404A
			3178				R32+R134a+R407C+R404A
			3180				R513A
			3182				R454C
			3184				R290+R454C+R455A+R1234yf
			3186				R404A+R455Avap/liq+R454Cvap/liq
			3188				R1234yf+R134a+R450A+R513A
			3190				R1233zd(E)
			3192				R134a+R407C+R513A
			3194				R134a+R448A+R513A+R407C
			3198				R454A+R454B+R454C+R404A
			3200				R1234yf+R1234ze+R454C+R455A
			3202				R32+R404A+R410A+R134a
			3204				R452B
			3206				R404A+R449A+R513A+R134a
			3208				R404A+R448A+R449A+R455A
			3210				R422Dvap/liq+R22
			3212				R1234yf+R452A+R134a
			3214				R515B
			3216				R1233zd
			3218				R515B+R513B
			3220				R515B+R1234ze

How to read the tables? The complete designation of a pressure gauge comprises the reference of the casing, followed by the reference of the dial. E.g.: Pressure gauge diameter 80mm composite, oil-filled, vertical outlet, 1/8"NPT, -1+45bar / R407C+R410A+R22: Case: MA1003V18B; Dial: 1088; Reference: MA1003V18B-1088

# Blondelle Pressure Gauge, Ø 80, Composite, HP

p.2/2



- Class 1
- 'A Lame Acier' unique bellow mechanism, the highest durability and accuracy
- All combinations of refrigerants possible
- Each gauge calibrated individually, Possibility to adjust the needle
  
- High quality composite casing
- Admissible overload: 200%
- Dry , oil filled or pulse-free
- Outlet: vertical or rear, fitting: 1/4" SAE or 1/8" NPT

High Pressure Version	Outlet	Fitting	Reference Case	Dial	Pressure psi	bar	Refrigerants
Dry	Vertical	1/4" SAE	MA0603V14S	4091 4093 5942 6073 6128 6176 6189 6608 6631 6705 7131 7280 7310 7313 7315 7342 7527 7529 7531 7543 7555 7735 7806 7808 8102 8138 8265	-30+435	-1+30	R409Avap/liq
		1/4" GAZ	MA0603V14G		-1+30	R134a+R22+R409Avap/liq	
		1/8" NPT	MA0603V18B		-1+30	R12+R22+R502	
	Rear	1/4" SAE	MA0603A14S		-1+30	R12+R22+R502	
		1/4" GAZ	MA0603A14G		-1+30	R22+R134a	
		1/8" NPT	MA0603A18B		-1+30	R134a	
Oil filled	Vertical	1/4" SAE	MA1003V14S	4091 4093 5942 6073 6128 6176 6189 6608 6631 6705 7131 7280 7310 7313 7315 7342 7527 7529 7531 7543 7555 7735 7806 7808 8102 8138 8265	-30+435	-1+30	R22+R134a
		1/4" GAZ	MA1003V14G		-1+30	R22+R134a	
		1/8" NPT	MA1003V18B		-1+30	R290+R600A	
	Rear	1/4" SAE	MA1003A14S		-1+30	R23	
		1/4" GAZ	MA1003A14G		-1+30	R134a+R404A+R507+R407C	
		1/8" NPT	MA1003A18B		-1+30	R134a+R22+R404A	
Pulse-free	Vertical	1/4" SAE	MA0901V14S	4091 4093 5942 6073 6128 6176 6189 6608 6631 6705 7131 7280 7310 7313 7315 7342 7527 7529 7531 7543 7555 7735 7806 7808 8102 8138 8265	-30+435	-1+30	R134a+R22+R404A
		1/4" GAZ	MA0901V14G		-1+30	R134a+R404A	
		1/8" NPT	MA0901V18B		-1+30	R290+R600A	
	Rear	1/4" SAE	MA0901A14S		-1+30	R23	
		1/4" GAZ	MA0901A14G		-1+30	R134a+R404A+R507+R407C	
		1/8" NPT	MA0901A18B		-1+30	R134a+R22+R404A	



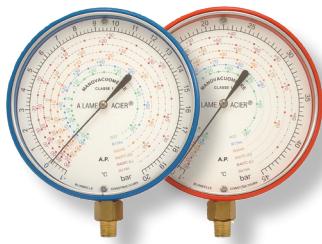
Version	Outlet	Fitting	Reference Case	Dial	Pressure psi	bar	Refrigerants
Oil filled	Vertical Rear	1/4" SAE 1/8" NPT 1/4" SAE 1/8" NPT	MA0503V14S MA0503V18B MA0503A14S MA0503A18B	6364 8010 3171 8030 3136 3135 3163	-30+290       	0+16 0+10 -1+20 0+30 -1+45 -1+50 -1+60	

How to read the tables? The complete designation of a pressure gauge comprises the reference of the casing, followed by the reference of the dial. E.g.: Pressure gauge diameter 80mm composite, oil-filled, vertical outlet, 1/8"NPT, -1+45bar / R407C+R410A+R22: Case: MA1003V18B; Dial: 1088; Reference: MA1003V18B-1088

# Blondelle Pressure Gauge, Ø 100, Aluminium, LP



Exceptional measurement and reading accuracy; up to 6 refrigerants on 1 dial.



- All combinations of refrigerants possible, up to 6 refrigerants on 1 dial.
- Class 1
- 'A Lame Acier' unique bellow mechanism, the highest durability and accuracy.
- Each gauge calibrated individually
- Aluminium case
  
- Admissible overload: 200%
- Possibility to adjust the needle
- Dry, oil filled or pulse-free
- Outlet: vertical or rear
- Fitting: 1/4" SAE or 1/8" NPT

Low Pressure Version	Outlet	Fitting	Reference		Pressure		Refrigerants
			Case	Dial	psi	bar	
Dry	Vertical	1/4" SAE	MA0605V14S	-30+1200	-1+20	R22+R134a+R404A+R407Cvap/liq+R410A	
		1/8" NPT	MA0605V18B				
	Rear	1/4" SAE	MA0605A14S				
		1/8" NPT	MA0605A18B				
	Vertical	1/4" SAE	MA1005V14S				
		1/8" NPT	MA1005V18B				
	Rear	1/4" SAE	MA1005A14S				
		1/8" NPT	MA1005A18B				
Oil filled	Vertical	1/4" SAE	MA0701V14S				
		1/8" NPT	MA0701V18B				
	Rear	1/4" SAE	MA0701A14S				
		1/8" NPT	MA0701A18B				
	Vertical	1/4" SAE	MA0701V14S				
		1/8" NPT	MA0701V18B				
	Rear	1/4" SAE	MA0701A14S				
		1/8" NPT	MA0701A18B				
Pulse-free	Vertical	1077			-1+20	R22+R134a+R404A+R407Cvap/liq+R410A	
		1083			-1+10	R134a+R404A+R22+R407Cvap/liq	
	Rear	1095			-1+10	R22+R404A	
		1097			-1+6	R170	
	Vertical	1151			-1+30	R744 (Subcritical)	
		1153			-1+20	R410A	
	Rear	1177			-1+80	R744 (Transcritical)	
		1184			-1+100	R744 (Transcritical)	
Pulse-free	Vertical	1185			-1+10	R134a+R507	
		1189			-1+20	R410A+R407Cvap/liq+R404A+R134a+R507	
	Rear	1191			-1+10	R227ea	
		2622			-1+10	R12 + R22 + R502	
	Vertical	4001			-1+80	R744 (Transcritical)	
		4003			-1+10	R134a+R22+R404A+R507	
	Rear	4007			-1+10	R404A+R134a+R407C+R407F	
		4011			-1+10	R134a+R404A+R407Cvap+R407Fvap	
Pulse-free	Vertical	4013			-1+10	R422Dvap/liq	
		4017			-1+10	R407Avap/liq	
	Rear	4019			-1+140	R744 (Transcritical)	
		4021			-1+20	R434a	
	Vertical	4025			-1+10	R449Avap/liq	
		4027			-1+10	R507	
	Rear	4029			-1+10	R448Avap/liq+R449Avap/liq	
		4033			-1+20	R407A+R449A+R410A	
Pulse-free	Vertical	4035			-1+10	R407C+R407A+R407F	
		4037			-1+20	R407A+R407F+R448A+R449A+R410A+R32	
	Rear	4041			-1+20	R410A+R407Cvap/liq+R404A+R134a+R507	
		4043			-1+10	R452a	
	Vertical	4045			-1+20	R32+R134a+R404A+R407Cvap/liq+R410A	
		4047			-1+20	R134a+R404A+R449A+R452A	
	Rear	4049			-1+20	R449Avap/liq	
		4055			-1+10	R1234yf	
Pulse-free	Vertical	4061			-1+10	R513A	
		4065			-1+20	R410A+R454B	



Low Pressure			Reference		Pressure		Refrigerants
Version	Outlet	Fitting	Case	Dial	psi	bar	
Dry	Vertical	1/4" SAE	MA0605V14S		-30+140	-1+10	
		1/8" NPT	MA0605V18B				
	Rear	1/4" SAE	MA0605A14S				
		1/8" NPT	MA0605A18B				
	Oil filled	1/4" SAE	MA1005V14S				
		1/8" NPT	MA1005V18B				
	Pulse-free	1/4" SAE	MA1005A14S				
		1/8" NPT	MA1005A18B				
Oil filled	Vertical	1/4" SAE	MA0701V14S		-30+140	-1+10	R134a
		1/8" NPT	MA0701V18B				
	Rear	1/4" SAE	MA0701A14S				
		1/8" NPT	MA0701A18B				
	Pulse-free	5785					
		6592					
		6688					
		6696					
		7098					
		7218					
		7360					
		7474					
		7533					

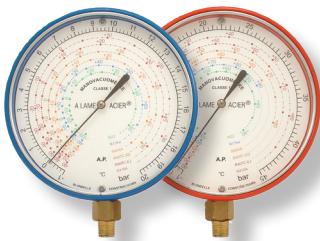
Reference			Pressure		Refrigerants		
Version	Outlet	Fitting	Case	Dial	psi	bar	
Oil filled	Vertical	1/4" SAE	MA0505V14S		0+50	-1+30	
		1/8" NPT	MA0505V18B				
		1/4" SAE	MA0505A14S				
		1/8" NPT	MA0505A18B				
	Rear	1098					
		1195					
		1229					
		4005					
		4006					
		4009					
		4013					
		4015					
		4016					
		4023					
		4050					
		4053					
		7371					

How to read the tables? The complete designation of a pressure gauge comprises the reference of the casing, followed by the reference of the dial. E.g.: Pressure gauge diameter 100mm aluminium, pulse-free, rear outlet, 1/8"NPT, -1+45bar / R410A Case: MA0701A18B; Dial: 1154; Reference: MA0701A18B-1154

# Blondelle Pressure Gauge, Ø 100, Aluminium, HP



Exceptional measurement and reading accuracy; up to 6 refrigerants on 1 dial.



- All combinations of refrigerants possible, up to 6 refrigerants on 1 dial.
- Class 1
- 'A Lame Acier' unique bellow mechanism, the highest durability and accuracy.
- Each gauge calibrated individually
- Aluminium case
  
- Admissible overload: 200%
- Possibility to adjust the needle
- Dry, oil filled or pulse-free
- Outlet: vertical or rear
- Fitting: 1/4" SAE or 1/8" NPT

High Pressure Version	Outlet	Fitting	Reference		Pressure		Refrigerants
			Case	Dial	psi	bar	
Dry	Vertical	1/4" SAE	MA0605V14S	1078 1084 1096 1154 1178 1183 1186 1190 1192 2623 4002 4004 4008 4012 4014 4015 4018 4020 4022 4026 4028 4030 4034 4036 4038 4042 4044 4046 4048 4056 4062 4066	-1+45	R22+R134a+R404A+R407Cvap/liq+R410A	
		1/8" NPT	MA0605V18B		-1+30	R134a+R404A+R22+R407Cvap/liq	
	Rear	1/4" SAE	MA0605A14S		-1+30	R22+R404A	
		1/8" NPT	MA0605A18B		-1+45	R410A	
	Oil filled	1/4" SAE	MA1005V14S		-1+160	R744 (Transcritical)	
		1/8" NPT	MA1005V18B		-1+50	R744 (Subcritical)	
	Pulse-free	1/4" SAE	MA1005A14S		-1+30	R134a+R507	
		1/8" NPT	MA1005A18B		-1+45	R410A+R407Cvap/liq+R404A+R134a+R507	
	Vertical	1/4" SAE	MA0701V14S	-30+2300	-1+30	R227ea	
		1/8" NPT	MA0701V18B		-1+30	R12 + R22 + R502	
		1/4" SAE	MA0701A14S		-1+30	R744 (Transcritical)	
		1/8" NPT	MA0701A18B		-1+30	R134a+R22+R404A+R507	
		1/4" SAE	MA0701A14S		-1+30	R404A+R134a+R407C+R407F	
		1/8" NPT	MA0701A18B		-1+30	R134a+R404A+R407CvapR407Fvap	
		1/4" SAE	MA0701A14S		-1+30	R422Dvap/liq	
		1/8" NPT	MA0701A18B		-1+30	R744 (Transcritical)	
	Rear	1/4" SAE	MA0701A14S	-1+200	-1+30	R407A	
		1/8" NPT	MA0701A18B		-1+30	R407A	
		1/4" SAE	MA0701A14S		-1+30	R434a	
		1/8" NPT	MA0701A18B		-1+30	R449Avap/liq	
		1/4" SAE	MA0701A14S		-1+30	R507	
		1/8" NPT	MA0701A18B		-1+30	R448Avap/liq+R449Avap/liq	
		1/4" SAE	MA0701A14S		-1+45	R407A+R449A+R410A	
		1/8" NPT	MA0701A18B		-1+45	R407C+R407A+R407F	
	Vertical	1/4" SAE	MA0701A14S	-1+45	-1+45	R407A+R407F+R448A+R449A+R410A+R32	
		1/8" NPT	MA0701A18B		-1+45	R410A+R407Cvap/liq+R404A+R134a+R507	
		1/4" SAE	MA0701A14S		-1+30	R452a	
		1/8" NPT	MA0701A18B		-1+45	R32+R134a+R404A+R407Cvap/liq+R410A	
		1/4" SAE	MA0701A14S		-1+30	R134a+R404A+R449A+R452A	
		1/8" NPT	MA0701A18B		-1+30	R1234yf	
		1/4" SAE	MA0701A14S		-1+30	R513A	
		1/8" NPT	MA0701A18B		-1+45	R410A+R454B	



High Pressure			Reference	Pressure		Refrigerants	
Version	Outlet	Fitting	Case	Dial	psi	bar	
Dry	Vertical	1/4" SAE	MA0605V14S				
		1/8" NPT	MA0605V18B				
	Rear	1/4" SAE	MA0605A14S				
		1/8" NPT	MA0605A18B				
	Oil filled	1/4" SAE	MA1005V14S				
		1/8" NPT	MA1005V18B				
	Pulse-free	1/4" SAE	MA1005A14S				
		1/8" NPT	MA1005A18B				
Oil filled	Vertical	1/4" SAE	MA0701V14S				
		1/8" NPT	MA0701V18B				
	Rear	1/4" SAE	MA0701A14S				
		1/8" NPT	MA0701A18B				
	Pulse-free	1/4" SAE	5786		-30+400	-1+30	R134a
		1/8" NPT	6593		-30+400	-1+30	R22+R134a
		1/4" SAE	6689		-30+400	-1+30	R134a
		1/8" NPT	6697		-30+400	-1+30	R134a+R404A
		1/4" SAE	7099		-30+400	-1+30	R290+R600A
		1/8" NPT	7219		-30+400	-1+30	R134a+R404A+R507+R407Cvap/liq
		1/4" SAE	7361		-30+400	-1+30	R407Cvap/liq
		1/8" NPT	7475		-30+400	-1+30	R23
		1/4" SAE	7534		-30+400	-1+30	R407Cvap/liq+R507
		1/8" NPT					

Reference			Pressure	Refrigerants		
Version	Outlet	Fitting	Case	Dial	psi	bar
Oil filled	Vertical	1/4" SAE	MA0505V14S			
		1/8" NPT	MA0505V18B			
		1/4" SAE	MA0505A14S			
		1/8" NPT	MA0505A18B			

How to read the tables? The complete designation of a pressure gauge comprises the reference of the casing, followed by the reference of the dial. E.g.: Pressure gauge diameter 100mm aluminium, pulse-free, rear outlet, 1/8"NPT, -1+45bar / R410A Case: MA0701A18B; Dial: 1154; Reference: MA0701A18B-1154

# Blondelle Pressure Gauge, Ø 100, Composite, LP



Exceptional measurement and reading accuracy; up to 6 refrigerants on 1 dial.



- All combinations of refrigerants possible, up to 6 refrigerants on 1 dial.
- Class 1
- 'A Lame Acier' unique bellow mechanism, the highest durability and accuracy.
- Each gauge calibrated individually
- Composite case
  
- Admissible overload: 200%
- Possibility to adjust the needle
- Dry, oil filled or pulse-free
- Outlet: vertical or rear
- Fitting: 1/4" SAE or 1/8" NPT

Low Pressure Version	Outlet	Fitting	Reference		Pressure		Refrigerants
			Case	Dial	psi	bar	
Dry	Vertical	1/4" SAE	MA0607V14S	-30+1200	-1+20	R22+R134a+R404A+R407Cvap/liq+R410A	
		1/8" NPT	MA0607V18B				
	Rear	1/4" SAE	MA0607A14S				
		1/8" NPT	MA0607A18B				
	Vertical	1/4" SAE	MA1007V14S				
		1/8" NPT	MA1007V18B				
	Rear	1/4" SAE	MA1007A14S				
		1/8" NPT	MA1007A18B				
Oil filled	Vertical	1/4" SAE	MA0703V14S				
		1/8" NPT	MA0703V18B				
	Rear	1/4" SAE	MA0703A14S				
		1/8" NPT	MA0703A18B				
	Pulse-free	1/4" SAE	1077		-1+20	R22+R134a+R404A+R407Cvap/liq+R410A	
		1/8" NPT	1083		-1+10	R134a+R404A+R22+R407Cvap/liq	
		1/4" SAE	1095		-1+10	R22+R404A	
		1/8" NPT	1097		-1+6	R170	
		1/4" SAE	1151		-1+30	R744 (Subcritical)	
		1/8" NPT	1153		-1+20	R410A	
		1/4" SAE	1177		-1+80	R744 (Transcritical)	
		1/8" NPT	1184		-1+100	R744 (Transcritical)	
	Vertical	1/4" SAE	1185		-1+10	R134a+R507	
		1/8" NPT	1189		-1+20	R410A+R407Cvap/liq+R404A+R134a+R507	
	Rear	1/4" SAE	1191		-1+10	R227ea	
		1/8" NPT	2622		-1+10	R12 + R22 + R502	
		1/4" SAE	4001		-1+80	R744 (Transcritical)	
		1/8" NPT	4003		-1+10	R134a+R22+R404A+R507	
		1/4" SAE	4007		-1+10	R404A+R134a+R407C+R407F	
		1/8" NPT	4011		-1+10	R134a+R404A+R407Cvap+R407Fvap	
	Vertical	1/4" SAE	4013		-1+10	R422Dvap/liq	
		1/8" NPT	4017		-1+10	R407Avap/liq	
	Rear	1/4" SAE	4019		-1+140	R744 (Transcritical)	
		1/8" NPT	4021		-1+20	R434a	
		1/4" SAE	4025		-1+10	R449Avap/liq	
		1/8" NPT	4027		-1+10	R507	
		1/4" SAE	4029		-1+10	R448Avap/liq+R449Avap/liq	
		1/8" NPT	4033		-1+20	R407A+R449A+R410A	
	Vertical	1/4" SAE	4035		-1+10	R407C+R407A+R407F	
		1/8" NPT	4037		-1+20	R407A+R407F+R448A+R449A+R410A+R32	
	Rear	1/4" SAE	4041		-1+20	R410A+R407Cvap/liq+R404A+R134a+R507	
		1/8" NPT	4043		-1+10	R452a	
		1/4" SAE	4045		-1+20	R32+R134a+R404A+R407Cvap/liq+R410A	
		1/8" NPT	4047		-1+20	R134a+R404A+R449A+R452A	
		1/4" SAE	4049		-1+20	R449Avap/liq	
		1/8" NPT	4055		-1+10	R1234yf	
	Vertical	1/4" SAE	4061		-1+10	R513A	
		1/8" NPT	4065		-1+20	R410A+R454B	



Low Pressure			Reference		Pressure		Refrigerants	
Version	Outlet	Fitting	Case	Dial	psi	bar		
Dry	Vertical	1/4" SAE	MA0607V14S					
		1/8" NPT	MA0607V18B					
	Rear	1/4" SAE	MA0607A14S					
		1/8" NPT	MA0607A18B					
Oil filled	Vertical	1/4" SAE	MA1007V14S					
		1/8" NPT	MA1007V18B					
	Rear	1/4" SAE	MA1007A14S					
		1/8" NPT	MA1007A18B					
Pulse-free	Vertical	1/4" SAE	MA0703V14S					
		1/8" NPT	MA0703V18B					
	Rear	1/4" SAE	MA0703A14S					
		1/8" NPT	MA0703A18B					
				5785	-30+140	-1+10	R134a	
				6592		-1+10	R22+R134a	
				6688		-1+10	R134a	
				6696		-1+10	R134a+R404A	
				7098	-30+140	-1+10	R290+R600A	
				7218		-1+10	R134a+R404A+R507+R407Cvap/liq	
				7360		-1+10	R407Cvap/liq	
				7474		-1+10	R23	
				7533		-1+10	R407Cvap/liq+R507	

Reference			Pressure		Refrigerants		
Version	Outlet	Fitting	Case	Dial	psi	bar	
Oil filled	Vertical	1/4" SAE	MA0507V14S				
		1/8" NPT	MA0507V18B				
	Rear	1/4" SAE	MA0507A14S				
		1/8" NPT	MA0507A18B				
				1098			
				1195			
				1229			
				4005			
				4006			
				4009			
				4013			
				4015			
				4016			
				4023			
				4050			
				4053			
				7371			
					0+580	-1+20	

How to read the tables? The complete designation of a pressure gauge comprises the reference of the casing, followed by the reference of the dial. E.g.: Pressure gauge diameter 100mm composite, pulse-free, rear outlet, 1/8"NPT, -1+45bar / R410A. Case: MA0703A18B; Dial: 1154; Reference: MA0703A18B-1154

# Blondelle Pressure Gauge, Ø 100, Composite, HP

Exceptional measurement and reading accuracy; up to 6 refrigerants on 1 dial.



- All combinations of refrigerants possible, up to 6 refrigerants on 1 dial.
- Class 1
- 'A Lame Acier' unique bellow mechanism, the highest durability and accuracy.
- Each gauge calibrated individually
- Composite case
  
- Admissible overload: 200%
- Possibility to adjust the needle
- Dry, oil filled or pulse-free
- Outlet: vertical or rear
- Fitting: 1/4" SAE or 1/8" NPT

High Pressure Version	Outlet	Fitting	Reference		Pressure		Refrigerants
			Case	Dial	psi	bar	
Dry	Vertical	1/4" SAE	MA0607V14S	1078 1084 1096 1154 1178 1183 1186 1190 1192 2623 4002 4004 4008 4012 4014 4015 4018 4020 4022 4026 4028 4030 4034 4036 4038 4042 4044 4046 4048 4056 4062 4066	-1+45	R22+R134a+R404A+R407Cvap/liq+R410A	
		1/8" NPT	MA0607V18B		-1+30	R134a+R404A+R22+R407Cvap/liq	
	Rear	1/4" SAE	MA0607A14S		-1+30	R22+R404A	
		1/8" NPT	MA0607A18B		-1+45	R410A	
	Oil filled	1/4" SAE	MA1007V14S		-1+160	R744 (Transcritical)	
		1/8" NPT	MA1007V18B		-1+50	R744 (Subcritical)	
	Pulse-free	1/4" SAE	MA1007A14S		-1+30	R134a+R507	
		1/8" NPT	MA1007A18B		-1+45	R410A+R407Cvap/liq+R404A+R134a+R507	
	Vertical	1/4" SAE	MA0703V14S	-30+2300	-1+30	R227ea	
		1/8" NPT	MA0703V18B		-1+30	R12 + R22 + R502	
		1/4" SAE	MA0703A14S		-1+30	R744 (Transcritical)	
		1/8" NPT	MA0703A18B		-1+160	R134a+R22+R404A+R507	
					-1+30	R404A+R134a+R407C+R407F	
					-1+30	R134a+R404A+R407CvapR407Fvap	
					-1+30	R422Dvap/liq	
					-1+200	R744 (Transcritical)	
	Rear	1/4" SAE	MA0703A14S		-1+30	R407A	
		1/8" NPT	MA0703A18B		-1+30	R744 (Transcritical)	
					-1+30	R434a	
					-1+30	R449Avap/liq	
					-1+30	R507	
					-1+45	R448Avap/liq+R449Avap/liq	
					-1+45	R407A+R449A+R410A	
					-1+30	R407C+R407A+R407F	
		1/4" SAE	MA0703A14S		-1+45	R407A+R407F+R448A+R449A+R410A+R32	
		1/8" NPT	MA0703A18B		-1+45	R410A+R407Cvap/liq+R404A+R134a+R507	
					-1+30	R452a	
					-1+45	R32+R134a+R404A+R407Cvap/liq+R410A	
					-1+30	R134a+R404A+R449A+R452A	
					-1+30	R1234yf	
					-1+30	R513A	
					-1+45	R410A+R454B	



High Pressure Version	Outlet	Fitting	Reference Case	Dial	Pressure psi	bar	Refrigerants	
Dry	Vertical	1/4" SAE	MA0607V14S		-30+400	-1+30		
		1/8" NPT	MA0607V18B					
	Rear	1/4" SAE	MA0607A14S					
		1/8" NPT	MA0607A18B					
Oil filled	Vertical	1/4" SAE	MA1007V14S		-30+400	-1+30		
		1/8" NPT	MA1007V18B					
	Rear	1/4" SAE	MA1007A14S					
		1/8" NPT	MA1007A18B					
Pulse-free	Vertical	1/4" SAE	MA0703V14S		-30+400	-1+30		
		1/8" NPT	MA0703V18B					
	Rear	1/4" SAE	MA0703A14S					
		1/8" NPT	MA0703A18B					
			5786		-30+400	-1+30	R134a	
			6593				R22+R134a	
			6689				R134a	
			6697				R134a+R404A	
			7099				R290+R600A	
			7219				R134a+R404A+R507+R407Cvap/liq	
			7361				R407Cvap/liq	
			7475				R23	
			7534				R407Cvap/liq+R507	

Version	Outlet	Fitting	Reference Case	Dial	Pressure psi	bar	Refrigerants
Oil filled	Vertical	1/4" SAE	MA0507V14S		0+580	0+50 -1+30 0+15 0+80 0+160 0+30 -1+10 -1+200 0+180 0+2,5 -1+45 0+40 -1+20	
		1/8" NPT	MA0507V18B				
		1/4" SAE	MA0507A14S				
		1/8" NPT	MA0507A18B				
			1098				
			1195				
			1229				
			4005				
			4006				
			4009				
			4013				
			4015				
			4016				
			4023				
			4050				
			4053				
			7371				

How to read the tables? The complete designation of a pressure gauge comprises the reference of the casing, followed by the reference of the dial. E.g.: Pressure gauge diameter 100mm composite, pulse-free, rear outlet, 1/8"NPT, -1+45bar / R410A. Case: MA0703A18B; Dial: 1154; Reference: MA0703A18B-1154

# Blondelle NH3 Pressure Gauge

Gauge developed for use on ammonia systems



- Class 1 'A Lame Acier' unique bellow mechanism, the highest durability and accuracy
- Ammonia resistant design
- All parts in contact with ammonia made of stainless steel 316L
- Ø 80 high quality composite casing or Ø 100 aluminium case
- Dry, oil filled or pulse-free
  
- Outlet: vertical or rear
- Fitting: 1/4" GAZ or 1/2" GAZ
- Each gauge calibrated individually
- Admissible overload: 200%
- Possibility to adjust the needle

D80 Composite case			Reference	Pressure			
Version	Outlet	Fitting	Case	Dial	psi	bar	Refrigerants
Dry	Vertical	1/4" GAZ	MA0604V14G				
		1/2" GAZ	MA0604V12G				
		1/8" NPT	MA0604V18B				
	Rear	1/4" GAZ	MA0604A14G				
		1/2" GAZ	MA0604A12G				
		1/8" NPT	MA1004V18B				
Oil filled	Vertical	1/4" GAZ	MA1004V14G				
		1/2" GAZ	MA1004V12G				
		1/8" NPT	MA1004V18B				
	Rear	1/4" GAZ	MA1004A14G				
		1/2" GAZ	MA1004A12G				
		1/8" NPT	MA0902V18B				
Pulse-free	Vertical	1/4" GAZ	MA0902V14G				
		1/2" GAZ	MA0902V12G				
		1/8" NPT	MA0902V18B				
	Rear	1/4" GAZ	MA0902A14G				
		1/2" GAZ	MA0902A12G				
		1/8" NPT	MA0902V18B	1161	-1+10	R717	
				1162	-1+30	R717	
				6078	-30+140	-1+10	R717
				6079	-30+400	-1+30	R717
				3017		-1+10	R717+R723
				3018		-1+30	R717+R723

D100 Aluminium case			Reference	Pressure			
Version	Outlet	Fitting	Case	Dial	psi	bar	Refrigerants
Dry	Vertical	1/4" GAZ	MA0606V14G				
		1/2" GAZ	MA0606V12G				
		1/8" NPT	MA0606V18B				
	Rear	1/4" GAZ	MA0606A14G				
		1/2" GAZ	MA0606A12G				
		1/8" NPT	MA1006V18B				
Oil filled	Vertical	1/4" GAZ	MA1006V14G				
		1/2" GAZ	MA1006V12G				
		1/8" NPT	MA1006V18B				
	Rear	1/4" GAZ	MA1006A14G				
		1/2" GAZ	MA1006A12G				
		1/8" NPT	MA0704V18B				
Pulse-free	Vertical	1/4" GAZ	MA0704V14G				
		1/2" GAZ	MA0704V12G				
		1/8" NPT	MA0704V18B				
	Rear	1/4" GAZ	MA0704A14G				
		1/2" GAZ	MA0704A12G				
		1/8" NPT	MA0704V18B	1261	-30+140	-1+10	R717
				1262	-30+400	-1+30	R717

How to read the tables? The complete designation of a pressure gauge comprises the reference of the casing, followed by the reference of the dial. E.g.: Pressure gauge diameter 80mm composite, oil filled, rear outlet, 1/4"GAZ, -1+10bar / NH3. Case: MA1004A14G; Dial: 1161; Reference MA1004A14G-1161



# Blondelle Accessories for Aluminium Gauges

## Gauge fixations



Fastening mount	
Ø	Reference
60 mm	AC0306-5269
100 mm	AC0306-192

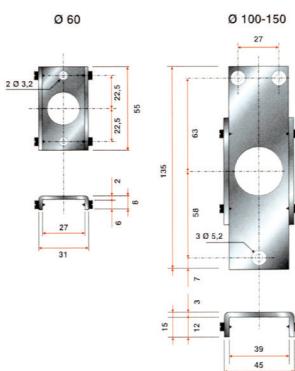
Fastening clamp	
Ø	Reference
60 mm	AC0305-5400
100 mm	AC0305-2112

Collar*	
Ø	Reference
60 mm	AC0302-185.30
100 mm	AC0302-190.30

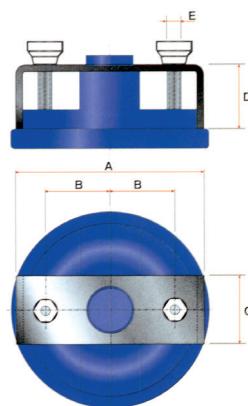
\* only for dry versions

## Dimensions

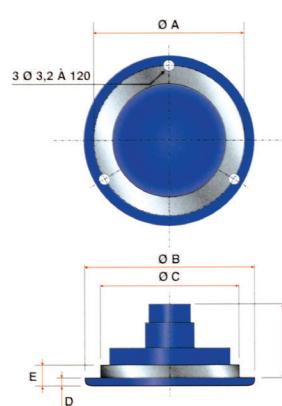
### Fastening mount



### Fastening clamp



### Collar



Dimensions in mm				
Ø	60	100	150	
A	72	114	178	
B	24	40	60	
C	33	40	40	
D	28,5	37	48	
E	M4	M6	M6	

Dimensions in mm				
Ø	60	100	150	
A	80	122	180	
B	88	130	189	
C	72	114	171	
D	4	4,5	4,5	
E	10	10,5	10,5	
F	42,5	54	52	

## Gauge protections



Anti-impact protection		
Ø	Color	Reference
60 mm	Red	AC0308-1259.02
	Blue	AC0308-1259.03
100 mm	Red	AC0308-1260.02
	Blue	AC0308-1260.03

## Blondelle Accessories for Composite Gauges



Gauge fixations

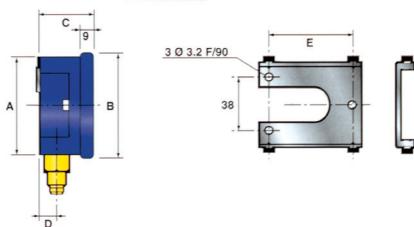


Fastening mount	
Ø	Reference
60 mm	AC0306-6369
80 mm	AC0306-6370
100 mm	AC0306-6371

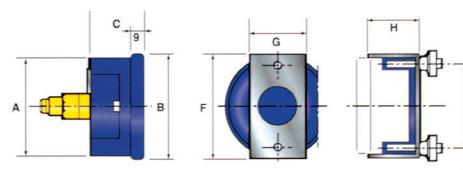
Fastening clamp	
Ø	Reference
60 mm	AC0305-5400
80 mm	AC0305-6134
100 mm	AC0305-2112

Dimensions

Fastening mount



Fastening clamp



Dimensions in mm			
Ø	60	80	100
A	66	79	108
B	71	88	119
C	35	35	39
D	9	11	11
E	36	56	55
F	70	88	114
G	35	40	40
H	34	33	37
I	57	70	40

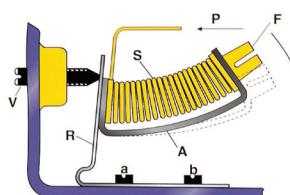
Gauge protections



Anti-impact protection		
Ø	Color	Reference
60 mm	Red	AC0308-6123.02
	Yellow	AC0308-6123.04
	Blue	AC0308-6123.03
	Red	AC0308-6124.02
	Yellow	AC0308-6124.04
	Blue	AC0308-6124.03

## Blondelle 'A LAME ACIER' Principle

Pressure-sensitive element formed of a bellow and a hardened stabilised blade.



- Class 1 accuracy: 1% of the end of the scale.
- Admissible overload: 200% for pressure gauge
- Accidental pressure: 50% for vacuum gauge
- Each instrument is calibrated individually.
- Perfect impression of dials through tampography provides you with high reading sensitivity.
- Light alloy casing or very high resistance injection moulded composite
- Operation temperature: -40°C +70°C
- Your logo can appear on the dials
- Endless combinations of refrigerants

- A = Steel plate (Lame Acier)
- S = Metal bellow
- R = Fixing square of motor element
- F = Kinematics articulation fork
- V= 0-screw
- P = Fluid inlet

- The "A Lame Acier®" pressure gauge comprises a pressure-sensitive element formed of a metal bellow and a steel plate.
- The steel plate A describes a generating line proportional to the pressure existing inside the bellow S (bellow situated between the two arched ends of the steel plate).
- One of the ends of the steel plate is fixed to bracket R which itself is fixed to the housing at a-b.
- A fork F fixed to the other end drives the kinematics, thus rotating the needle.
- The adjusting screw V - accessible from the outside - enables adjusting the position of the needle.



# BLONDELLE MANIFOLDS



## Blondelle 1 Lane Manifold



- Unique spindle valve, always tight without effort
- Class 1, 'A Lame Acier' gauge
- Ø 60 or Ø 80
- Dry, oil filled or pulse-free (only Ø 80)
- All combinations of refrigerants possible
- Low Pressure or High Pressure gauge fitted
- Available with or without appropriate charging hoses

Supplied with: 2 red/blue charging hoses, length 1 m; option ball valve. R410A: High Resistance hoses : one hose with two 1/4" SAE fittings +1 charging line with one 5/16" and one 1/4" SAE fitting.

Pressure	Gauges		Type	Manifold	Reference Dial	Option	bar	psi	Scales		
	Diameter	Type							Refrigerants		
Low pressure	60 mm	Dry		FR0801BP					R12+R22+R502		
	80 mm	Oil filled		FR1001BP					R134a+R404A		
		Dry		FR0802BP					R22+R134a+R404A		
		Oil filled		FR1002BP					R134a+R404A+R507+R407C		
		Pulse-free		FR0901BP					R290+R600		
	60 mm	Dry		FR0801HP					R22+R134a+R404A+R507		
		Oil filled		FR1001HP					R134a+R407Cvap/liq		
		Dry		FR0802HP					R22+R134a+R404A+R407C		
		Oil filled		FR1002HP					R134a+R22+R409Avap/liq		
		Pulse-free		FR0901HP					R22+R417Avap/liq		
High pressure	60 mm	Dry		E01	x	x			R134a+R404A+R407Cvap/liq		
				E02	x	x			R134a+R404A+R407C		
				E03	x				R507+R407Cvap/liq		
				E04	x				R410A		
				E05	x	x			R1270		
				E06	x				R410A+R22+R134a+R407C		
				E07	x				R744 (-1+30 Bar, -1+50 Bar)*		
				E08	x				R410A+R22+R404A+R134a		
				E09	x				R23		
				E10	x				R22+R410A+R407Cvap/liq		
				E11	x				R410A+R404A+R407Cvap/liq		
				E12	x				R134a+R22+R407Cvap/liq		
				E13	x				R507+R407Cvap/liq		
				E15	x				R410A		
				E16	x				R1270		
				E17	x				R410A+R22+R134a+R407C		
				E20	x				R744 (-1+30 Bar, -1+50 Bar)*		
				E21	x				R410A+R22+R404A+R134a		
				E23	x				R23		
				E24	x				R22+R410A+R407Cvap/liq		
				E27	x				R410A+R407C+R404A+R134a		
				E28	x				R422Dvap/liq+R422Avap/liq+R417Avap/liq		
				E33	x				R744 (-1+30 Bar, -1+60 Bar)*		
				E34	x	x			R744 (-1+30 Bar/435psi, -1+50 Bar/725psi )*		
				E38	x				R134a+R1234yf+R1234ze		
				E40	x				R227ea		
				E42	x	x			R22+R290+R600A		
				E43	x				R134a+R404A+R407F		
				E44	x				R32		
				E46	x				R407A+R407F+R404A		
				E47	x				R404A+R407A+R407F+R449A		
				E48	x				R134a+R404A+R407A+R407F		
				E49	x				R32+R410A		
				E50	x				R290+R134a+R407C+R404A		
				E51	x				R404A+R508		
				E52	x				R32+R410A+R134a+R407C		
				E53	x				R134a+R404A+R22+R449A		
				E54	x				R452a		
				E55	x				R134a+R404A+R407F+R449A		
				E56	x				R134a+R404A+R449A+R407C		
				E57	x				R134a+R404A+R407F+R407C		
				E58	x				R452a+R404A+R134a		
				E60	x				R32+R410A+R407C		
				E61	x				R448A+R449A+R407F		
				E62	x				R23+R507		
				E63	x				R448A+R449A+R450A+R452A		
				E64	x				R449Avap/liq+R448Avap/liq		
				E65	x				R449A+R452+R513+1234yf		
				E66	x				R404A+R449A+R452A+R134a		
				E67	x				R407A+R449A+R410A		
				E68	x				R448A+R449A+R452A+R455A		
				E69	x				R410A+R134a+R407Cvap/liq		
				E70	x				R404A+R448A+R449A+R134a		
				E71	x				R404A+R452A+R134a+R410A		
				E72	x				R410A+R404A+R448A+R134a		
				E73	x				R442A+R134a+R404A		
				E74	x		V		R32+R134a+R407C+R404A		
										Option: Charging hoses length 1m with ball valve	



Pressure	Gauges		Reference	Manifold	Dial	Option	Scales		
	Diameter	Type					bar	psi	Refrigerants
Low pressure	60 mm	Dry	FR0801BP	E77			x		-1+20Bar R134a+R404A+R449A+R448A+R452A R134a R1234yf+R32+R407C+R134a R449+R452+R32+R134a R404A+R407F+R448A+R449A R449+R410A+R32+R134a R134a+R448A+R452A+R455A R1234yf+R1234ze+R454C+R455A -1+50Bar R32+R404A+R410A+R134a R134a+R404A+R449A+R452A -1+60Bar R410A+R454B R410A+R404A+R449A+R134a R449A+R455A+R32+R410A R134a+R513A+1234yf+R1234ze R449A+R452A+R513A+R404A R513A R290+R454C+R455A+R1234yf R134a+R407C+R513A R404A+R455Avap/Iiq+R454Cvap/Iiq R410A R454A+R454B+R454C+R404A R404A+R449A+R513A+R134a R404A+R448A+R449A+R455A R422Dvap/Iiq+R22 R1234yf+R452A+R134a
		Oil filled	FR1001BP						
	80 mm	Dry	FR0802BP						
		Oil filled	FR1002BP						
	High pressure	Pulse-free	FR0901BP						
		Dry	FR0801HP						
		Oil filled	FR1001HP						
		Dry	FR0802HP						
		Oil filled	FR1002HP						
		Pulse-free	FR0901HP						
							x		

## Blondelle 2 Lane Manifold



- Unique spindle valves, always tight without effort
- Class 1, 'A Lame Acier' gauges
- Ø 60 or Ø 80
- Dry, oil filled or pulse-free (only Ø 80)
- All combinations of refrigerants possible
- Sight glass and hook (also available without sightglass)
- Available with or without the appropriate charging hoses

Supplied in a Blondelle plastic carrying case including: 3 charging hoses, red, yellow and blue; length 1 m with two 1/4" SAE fittings, optional ball valves. For R410A High Resistance hoses with Teflon gaskets. Red and blue hoses are fitted with a 5/16" nut at the curved side.

Material	Other specs	Gauges		Manifold	Reference Dial	Option	bar	psi	Scales	
		Diameter	Type						Refrigerants	
Aluminium	Complete case	60 mm	Dry	FR1103					R12+R22+R502 R134a+R404A R22+R134a+R404A R134a+R404A+R507+R407C R290+R600 R22+R134a+R404A+R507 R134a+R407Cvap/liq R22+R134a+R404A+R407C R134a+R22+R409Avap/liq R22+R417Avap/liq R134a+R404A+R407Cvap/liq R134a+R22+R407Cvap/liq R507+R407Cvap/liq R410A R1270 R410A+R22+R134a+R407C R744 (-1+30 Bar, -1+50 Bar)* R410A+R22+R404A+R134a R23 R407Cvap/liq+R410A+R22 R410A+R407C+R404A+R134a R422Dvap/liq+R422Avap/liq+R417Avap/liq R744 (-1+30 Bar, -1+60 Bar)* R744 (-1+30 Bar/435psi, -1+50 Bar/725psi )* R134a+R1234yf+R1234ze R227ea R22+R290+R600A R134a+R404A+R407F R32 R407A+R407F+R404A R404A+R407A+R407F+R449A R134a+R404A+R407A+R407F R32+R410A R290+R134a+R407C+R404A R404A+R508 R32+R410A+R134a+R407C R134a+R404A+R22+R449A R452a R134a+R404A+R407F+R449A R134a+R404A+R449A+R407C R134a+R404A+R407F+R407C R452a+R404A+R134a R32+R410A+R407C R23+R507 R448A+R449A+R407F R448A+R449A+R450A+R452A R449Avap/liq+R448Avap/liq R449A+R452+R513+1234yf R404A+R449A+R452A+R134a R407A+R449A+R410A R448A+R449A+R452A+R455A R410A+R134a+R407Cvap/liq R404A+R448A+R449A+R134a R404A+R452A+R134a+R410A R410A+R404A+R448A+R134a R442A+R134a+R404A R32+R134a+R407C+R404A	
			Oil filled	FR1303						
	+ no sight glass	80 mm	Dry	FR1104						
			Oil filled	FR1304						
	Without case & hoses	60 mm	Oil filled	FR1305						
			Pulse-free	FR1202						
		80 mm	Dry	FR0203						
			Oil filled	FR0403						
			Dry	FR0204						
			Oil filled	FR0404						
			Pulse-free	FR0302						
	+ no sight glass	Without case & hoses	E01		x	x				
			E02		x	x				
			E03		x					
			E04		x					
			E05		x	x				
			E06		x					
			E07		x					
			E08		x					
			E09		x					
			E10		x					
			E11		x					
			E12		x					
			E13		x					
			E15		x					
			E16		x					
			E17		x					
			E20		x					
			E21		x					
			E23		x					
			E24		x					
			E27		x					
			E28		x					
			E33		x					
			E34		x	x				
			E38		x					
			E40		x					
			E42		x	x				
			E43		x					
			E44		x					
			E46		x					
			E47		x					
			E48		x					
			E49		x					
			E50		x					
			E51		x					
			E52		x					
			E53		x					
			E54		x					
			E55		x					
			E56		x					
			E57		x					
			E58		x					
			E60		x					
			E61		x					
			E62		x					
			E63		x					
			E64		x					
			E65		x					
			E66		x					
			E67		x					
			E68		x					
			E69		x					
			E70		x					
			E71		x					
			E72		x					
			E73		x					
			E74		x					
		V	Option: Charging hoses length 1m with ball valve							



Material	Other specs	Gauges		Manifold	Reference Dial	Option	Scales			
		Diameter	Type				bar	psi	Refrigerants	
Aluminium	Complete case  + no sight glass	60 mm	Dry	FR1103						
			Oil filled	FR1303						
		80 mm	Dry	FR1104						
			Oil filled	FR1304						
		60 mm	Oil filled	FR1305						
	Without case & hoses		Pulse-free	FR1202						
			Dry	FR0203						
	80 mm	Oil filled	FR0403							
		Dry	FR0204							
		Oil filled	FR0404							
	Pulse-free	Pulse-free	FR0302							
		E77		x				2* -1+20Bar		
	V	E78			x				R134a+R404A+R449A+R448A+R452A	
					x				R134a	
		E79			x				R1234yf+R32+R407C+R134a	
					x				R449+R452+R32+R134a	
		E80			x				R404A+R407f+R448A+R449A	
					x				R449+R410A+R32+R134a	
		E81			x				R134a+R448A+R452A+R455A	
					x				R1234yf+R1234ze+R454C+R455A	
		E82			x				2* -1+50Bar	
					x				R32+R404A+R410A+R134a	
		E83			x				R134a+R404A+R449A+R452A	
					x				2* -1+60Bar	
		E84			x				R410A+R454B	
					x				R410A+R404A+R449A+R134a	
		E85			x				R449A+R452A+R513A+R404A	
					x				R513A	
		E86			x				R290+R454C+R455A+R1234yf	
					x				R134a+R407C+R513A	
		E87			x				R404A+R455Avap/liq+R454Cvap/liq	
					x				R410A	
		E88			x				R454A+R454B+R454C+R404A	
					x				R404A+R449A+R513A+R134a	
		E89			x				R404A+R448A+R449A+R455A	
					x				R422Dvap/liq+R22	
		E90			x				R1234yf+R452A+R134a	
					x					
		E91			x					
					x					
		E92			x					
					x					
		E93			x					
					x					
		E94			x					
					x					
		E95			x					
					x					
		E96			x					
					x					
		E97			x					
					x					
		E98			x					
					x					
		E99			x					
					x					
		E101			x					
					x					
		E102			x					
					x					
		E104			x					
					x					
		E105			x					
					x					
		E106			x					
					x					

\* For transcritical references look at page 54

Bare body	Reference
Aluminium	FR0102

How to read the tables? The complete designation of a manifold comprises on the one hand the references of the manifold and gauge and on the other hand the reference of the refrigerants. E.g.: 2 lane aluminium manifold, without charging hoses, 80mm gauges, oil filled, refrigerants: R22+R134a +R404A: Manifold: FR0404; Refrigerants: E03; Reference: FR0404-E03

# Blondelle 4 Lane Manifold

4 valves



- Unique spindle valves, always tight without effort
- Class 1, 'A Lame Acier', Ø 80 gauges
- 4 lanes - 4 valves
- All combinations of refrigerants possible
- Dry, oil filled or pulse-free
- Sight glass and hook
- Available with or without the appropriate charging hoses

Supplied in a Blondelle plastic carrying case including: 3 charging hoses, red, yellow and blue; length 1,5 m with 1/4" SAE fitting, optional ball valves and 1 yellow charging line, length 1 m with 3/8" fitting. For R410A High Resistance hoses with Teflon gaskets. Red and blue hoses are fitted with a 5/16" nut at the curved side.

Valves	Manifold	Gauges	Reference	Scales						
				Type	Manifold	Dial	Option	bar	psi	Refrigerants
4 valves	Complete case	Dry	FR1108-4R							
		Oil filled	FR1308-4R							
		Pulse-free	FR1204-4R							
		Dry	FR0208-4R							
		Oil filled	FR0408-4R							
		Pulse-free	FR0304-4R							
		Oil filled	FR1310							
Special vacuum	Without case & hoses	E01		x	x			R12+R22+R502		
		E02		x	x			R134a+R404A		
		E03		x				R22+R134a+R404A		
		E04		x				R134a+R404A+R507+R407C		
		E05		x		x		R290+R600		
		E06		x				R22+R134a+R404A+R507		
		E07		x				R134a+R407Cvap/liq		
		E08		x				R22+R134a+R404A+R407C		
		E09		x				R134a+R22+R409Avap/liq		
		E10		x				R22+R417Avap/liq		
		E11		x				R134a+R404A+R407Cvap/liq		
		E12		x				R134a+R22+R407Cvap/liq		
		E13		x				R507+R407Cvap/liq		
		E15		x				R410A		
		E16		x				R1270		
		E17		x				R410A+R22+R134a+R407C		
		E20		x				R744 (-1+30 Bar, -1+50 Bar)*		
		E21		x				R410A+R22+R404A+R134a		
		E23		x				R23		
		E24		x				R407Cvap/liq+R410A+R22		
		E27		x				R410A+R407C+R404A+R134a		
		E28		x				R422Dvap/liq+R422Avap/liq+R417Avap/liq		
		E33		x				R744 (-1+30Bar, -1+60Bar)*		
		E34		x				R744 (-1+30Bar/435psi, -1+50Bar/725psi)*		
		E38		x				R134a+R1234yf+R1234ze		
		E40		x				R227ea		
		E42		x		x		R22+R290+R600A		
		E43		x				R134a+R404A+R407F		
		E44		x				R32		
		E46		x				R407A+R407F+R404A		
		E47		x				R404A+R407A+R407F+R449A		
		E48		x				R134a+R404A+R407A+R407F		
		E49		x				R32+R410A		
		E50		x				R290+R134a+R407C+R404A		
		E51		x				R404A+R508		
		E52		x				R32+R410A+R134a+R407C		
		E53		x				R134a+R404A+R22+R449A		
		E54		x				R452a		
		E55		x				R134a+R404A+R407F+R449A		
		E56		x				R134a+R404A+R449A+R407C		
		E57		x				R134a+R404A+R407F+R407C		
		E58		x				R452a+R404A+R134a		
		E60		x				R32+R410A+R407C		
		E61		x				R448A+R449A+R407F		
		E62		x				R23+R507		
		E63		x				R448A+R449A+R450A+R452A		
		E64		x				R449A+R449A+R452+R513+1234yf		
		E65		x				R404A+R449A+R452A+R134a		
		E66		x				R407A+R449A+R410A		
		E67		x				R448A+R449A+R452A+R455A		
		E68		x				R410A+R134a+R407Cvap/liq		
		E69		x				R404A+R448A+R449A+R134a		
		E70		x				R404A+R452A+R134a+R410A		
		E71		x				R410A+R404A+R448A+R134a		
		E72		x				R442A+R134a+R404A		
		E73		x				R32+R134a+R407C+R404A		
		E74		x				V Option: Charging hoses length 1,5m with ball valve		



Valves	Manifold	Gauges	Reference	Scales					
				Manifold	Dial	Option	bar	psi	Refrigerants
4 valves	Complete case	Dry	FR1108-4R						
		Oil filled	FR1308-4R						
		Pulse-free	FR1204-4R						
		Dry	FR0208-4R						
		Oil filled	FR0408-4R						
		Pulse-free	FR0304-4R						
		Oil filled	FR1310						
Special vacuum	Vacuum gauge with valve	E77		x	x	2* -1+20Bar			
		E78		x	x	R134a+R404A+R449A+R448A+R452A			
		E79		x		R134a			
		E80		x		R1234yf+R32+R407C+R134a			
		E81		x	x	R449+R452+R32+R134a			
		E82		x		R404A+R407F+R448A+R449A			
		E83		x		R449+R410A+R32+R134a			
		E84		x		R134a+R448A+R452A+R455A			
		E85		x		R1234yf+R1234ze+R454C+R455A			
		E86		x		2* -1+50Bar			
Special vacuum	Vacuum gauge with valve	E87		x		R32+R404A+R410A+R134a			
		E88		x		R134a+R404A+R449A+R452A			
		E89		x		2* -1+60Bar			
		E90		x		R410A+R454B			
		E91		x		R410A+R404A+R449A+R134a			
		E92		x		R449A+R455A+R32+R410A			
		E93		x		R134a+R513A+1234yf+R1234ze			
		E94		x		R449A+R452A+R513A+R404A			
		E95		x		R513A			
		E96		x		R290+R454C+R455A+R1234yf			
Special vacuum	Vacuum gauge with valve	E97		x		R134a+R407C+R513A			
		E98		x	x	R404A+R455Avap/liq+R454Cvap/liq			
		E99		x		R410A			
		E101		x		R454A+R454B+R454C+R404A			
		E102		x		R404A+R449A+R513A+R134a			
		E104		x		R404A+R448A+R449A+R455A			
		E105		x		R422Dvap/liq+R22			
		E106		x		R1234yf+R452A+R134a			
		V				Option: Charging hoses length 1,5m with ball valve			

\* For transcritical references look at page 54

Bare body	Reference
Central valve	FR0104
4 valves	FR0104-4R

How to read the tables? The complete designation of a manifold comprises on the one hand the references of the manifold and gauge and on the other hand the reference of the refrigerants. E.g.: 4 lane & 4 valves aluminium manifold, complete case, 80mm gauges, oil filled, refrigerants: R134a+R404A: Manifold: FR1308-4R; Refrigerants: E02; Reference: FR1308-4R-E02

# Blondelle 4 Lane Manifold

Central valve



- Unique spindle valves, always tight without effort
- Class 1, 'A Lame Acier', Ø 80 gauges
- 4 lanes - Central Valve
- All combinations of refrigerants possible
- Dry, oil filled or pulse-free
- Sight glass and hook
- Available with or without the appropriate charging hoses

Supplied in a Blondelle plastic carrying case including: 3 charging hoses, red, yellow and blue; length 1,5 m with 1/4" SAE fitting, optional ball valves and 1 yellow vacuum charging line, length 1 m with 3/8" fitting. For R410A High Resistance hoses with Teflon gaskets. Red and blue hoses are fitted with a 5/16" nut at the curved side. Optional: ball valve

Valves	Manifold Other specs	Gauges Type	Reference Manifold	Scales			
				Dial	bar	psi	Refrigerants
Central valve	Complete case	Dry	FR1108				
		Oil filled	FR1308				
		Pulse-free	FR1204				
	Without case & hoses	Dry	FR0208				
		Oil filled	FR0408				
		Pulse-free	FR0304				
			E01	x	x		R12+R22+R502
			E02	x	x		R134a+R404A
			E03	x			R22+R134a+R404A
			E04	x			R134a+R404A+R507+R407C
			E05	x		x	R290+R600
			E06	x			R22+R134a+R404A+R507
			E07	x			R134a+R407Cvap/liq
			E08	x			R22+R134a+R404A+R407C
			E09	x			R134a+R22+R409Avap/liq
			E10	x			R22+R417Avap/liq
			E11	x			R134a+R404A+R407Cvap/liq
			E12	x			R134a+R22+R407Cvap/liq
			E13	x			R507+R407Cvap/liq
			E15	x			R410A
			E16	x			R1270
			E17	x			R410A+R22+R134a+R407C
			E20	x			R744 (-1+30 Bar, -1+50 Bar)*
			E21	x			R410A+R22+R404A+R134a
			E23	x			R23
			E24	x			R407Cvap/liq+R410A+R22
			E27	x			R410A+R407C+R404A+R134a
			E28	x			R422Dvap/liq+R422Avap/liq+R417Avap/liq
			E33	x			R744 (-1+30Bar/435psi,-1+50Bar/725psi)*
			E34	x		x	R744 (-1+30Bar/435psi,-1+50Bar/725psi)*
			E38	x			R134a+R1234yf+R1234ze
			E40	x			R227ea
			E42	x		x	R22+R290+R600A
			E43	x			R134a+R404A+R407F
			E44	x			R32
			E46	x			R407A+R407F+R404A
			E47	x			R404A+R407A+R407F+R449A
			E48	x			R134a+R404A+R407A+R407F
			E49	x			R32+R410A
			E50	x			R290+R134a+R407C+R404A
			E51	x			R404A+R508
			E52	x			R32+R410A+R134a+R407C
			E53	x			R134a+R404A+R22+R449A
			E54	x			R452a
			E55	x			R134a+R404A+R407F+R449A
			E56	x			R134a+R404A+R449A+R407C
			E57	x			R134a+R404A+R407F+R407C
			E58	x			R452a+R404A+R134a
			E60	x			R32+R410A+R407C
			E61	x			R448A+R449A+R407F
			E62	x			R23+R507
			E63	x			R448A+R449A+R450A+R452A
			E64	x			R449Avap/liq+R448Avap/liq
			E65	x			R449A+R452+R513+1234yf
			E66	x			R404A+R449A+R452A+R134a
			E67	x			R407A+R449A+R410A
			E68	x			R448A+R449A+R452A+R455A
			E69	x			R410A+R134a+R407Cvap/liq
			E70	x			R404A+R448A+R449A+R134a
			E71	x			R404A+R452A+R134a+R410A
			E72	x			R410A+R404A+R448A+R134a
			E73	x			R442A+R134a+R404A
			E74	x			R32+R134a+R407C+R404A
			V				Option: Charging hoses length 1,5m with ball valve



Valves	Manifold	Gauges Type	Reference	Scales					
				Manifold	Dial	Option	bar	psi	Refrigerants
Central valve	Complete case	Dry	FR1108						
		Oil filled	FR1308						
	Without case & hoses	Pulse-free	FR1204						
		Dry	FR0208						
		Oil filled	FR0408						
		Pulse-free	FR0304						
		E77		x	x		2* -1+20Bar		
		E78		x	x		R134a+R404A+R449A+R448A+R452A		
		E79		x			R134a		
		E80		x			R1234yf+R32+R407C+R134a		
		E81		x	x		R449+R452+R32+R134a		
		E82		x			R404A+R407F+R448A+R449A		
		E83		x			R449+R410A+R32+R134a		
		E84		x			R134a+R448A+R452A+R455A		
		E85		x			R1234yf+R1234ze+R454C+R455A		
		E86		x			2* -1+50Bar		
		E87		x			R32+R404A+R410A+R134a		
		E88		x			R134a+R404A+R449A+R452A		
		E89		x			2* -1+60Bar		
		E90		x			R410A+R454B		
		E91		x			R410A+R404A+R449A+R134a		
		E92		x			R449A+R455A+R32+R410A		
		E93		x			R134a+R513A+1234yf+R1234ze		
		E94		x			R449A+R452A+R513A+R404A		
		E95		x			R513A		
		E96		x			R290+R454C+R455A+R1234yf		
		E97		x			R134a+R407C+R513A		
		E98		x		x	R404A+R455Avap/Liq+R454Cvap/Liq		
		E99		x			R410A		
		E101		x			R454A+R454B+R454C+R404A		
		E102		x			R404A+R449A+R513A+R134a		
		E104		x			R404A+R448A+R449A+R455A		
		E105		x			R422Dvap/Liq+R22		
		E106		x			R1234yf+R452A+R134a		
		V					Option: Charging hoses length 1,5m with ball valve		

\* For transcritical references look at page 54

Bare body	Reference
Central valve	FR0104
4 valves	FR0104-4R

How to read the tables? The complete designation of a manifold comprises on one hand the references of the manifold and gauge and on the other hand the reference of the refrigerants.E.g.: 4 lane & central valve aluminium manifold, 80mm gauges, oil filled, charging hoses length 1,5m with ball valve, Refrigerants: R407C Vap.Liq.+R410A+R22: Manifold: FR1308; Refrigerants: E24; Reference: FR1308-E24-V

## Blondelle 2 Lane CO2 Manifold

Transcritical



- Refrigerant: R744 (CO2)
- Transcritical: 80/100 bar & 160/200 bar - Bar-°C & Psi-°F
- 2 lane manifold, aluminium body
- Unique spindle valves, always tight without effort
- Class 1, 'A Lame Acier' Ø 80 or Ø 100 gauges
- Dry, oil filled (Ø 80), pulse-free

Supplied in a Blondelle plastic carrying case including:  
Transcritical: 3 hoses, length 1meter with 1/4" SAE fittings, WP 200 Bar.

Material	Other specs	Gauges		Reference			Scales		
		Diameter	Type	Manifold	Dial	Option	bar	psi	Refrigerants
Aluminium	Transcritical (complete case)	80 mm	Dry	FR4112					
			Oil filled	FR4312					
			Pulse-free	FR4512					
		100 mm	Dry	FR5512					
			Pulse-free	FR5513					
	Transcritical (Case without hoses)	80 mm	Dry	FR4102					
			Pulse-free	FR4302					
		100 mm	Dry	FR4502					
			Pulse-free	FR5502					
			Dry	FR5503	E25	x			R744 (-1+80 Bar, -1+160 Bar)
			Pulse-free		E30	x			R744 (-1+100Bar, -1+160Bar)
					E37	x	x		R744 (-1+80/1200, -1+160/2300 Bar/Psi)
					E75	x			R744 (-1+80Bar, -1+200Bar)
					E76	x			R744 (-1+100Bar, -1+200Bar)
					E103	x	x		R744 (-1+100/1400, -1+160/2300 Bar/Psi)
						V			Option: charging hoses with isolation valve

## Blondelle 2 Lane CO2 Manifold

Subcritical



- Refrigerant: R744 (CO2)
- Subcritical: 30 bar & 50/60 bar - Bar-°C & Psi-°F
- 2 lane manifold, aluminium body
- Unique spindle valves, always tight without effort
- Class 1, 'A Lame Acier' Ø 80
- Dry, oil filled, pulse-free

Supplied in a Blondelle plastic carrying case including:  
Subcritical: 3 hoses, red, blue and yellow, length 1 meter with 1/4" SAE fittings.

Material	Other specs	Gauges		Reference			Scales		
		Diameter	Type	Manifold	Dial	Option	bar	psi	Refrigerants
Aluminium	2-way - Subcritical (complete case) + no sight glass	80 mm	Dry	FR1104					
			Oil filled	FR1304					
			Oil filled	FR1305					
			Pulse-free	FR1202					
			Oil-filled	FR1308					
	4-way - Subcritical 4-way-4-valves-Sub		Oil-filled	FR1308-4R	E20	x			R744 (-1+30 Bar, -1+50 Bar)
					E33	x			R744 (-1+30 Bar, -1+60 Bar)
					E34	x	x		R744 (-1+30/435, -1+50/725 Bar/Psi)
						V			Option: charging hoses with ball valve

Bare body	Reference
Subcritical	FR0102

How to read the tables? The complete designation of a manifold comprises on the one hand the references of the manifold and gauge and on the other hand the reference of the refrigerants.  
E.g.: 2 lane aluminium manifold, complete case, 80mm gauges, oil filled, refrigerant: R744, pressure: -1+30Bar, -1+50Bar: Manifold: FR1304; Refrigerants: E20; Reference: FR1304-E20

## Blondelle 4 Lane CO2 Manifold

Transcritical



- Refrigerant: R744 (CO2)
- Transcritical: 80/100 bar & 160/200 bar - Bar-°C & Psi-°F
- 4 lane manifold, aluminium body
- Unique spindle valves, always tight without effort
- Class 1, 'A Lame Acier' Ø 80 gauges
- Dry, oil filled, pulse-free

Supplied in a Blondelle plastic carrying case including:  
Transcritical: 4 hoses, length 1,5meter with 1/4" SAE fittings, WP 200 Bar.

Material	Other specs	Gauges		Reference			Scales		
		Diameter	Type	Manifold	Dial	Option	bar	psi	Refrigerants
Aluminium	4-lane - Transcritical (complete case)	80 mm	Dry Oil filled Pulse-free	FR4118-4R FR4318-4R FR4518-4R	E25 E30 E37 E75 E76 E103	V	x x x x x x	R744 (-1+80 Bar, -1+160 Bar) R744 (-1+100Bar, -1+160Bar) R744 (-1+80/1200, -1+160/2300 Bar/Psi) R744 (-1+80Bar, -1+200Bar) R744 (-1+100Bar, -1+200Bar) R744 (-1+100/1400, -1+160/2300 Bar/Psi)	Option: charging hoses with isolation valve

## Blondelle Isolation Valves for CO2 Hoses - Transcritical

200Bar working pressure



- Optional valves for CO2 hoses
- 200Bar working pressure
- CO2 / R744 (LP & HP)
- 1/4"SAE male - 1/4"SAE female swivel nut

Reference	Description
AC0107-R744	CO2 Transcritical Hose Shut-off valve

## Blondelle CO2 Charging Equipment

Liquid &amp; Gas



- Refrigerant: R744 (CO2)
- Charging equipment with regulator for CO2
- Liquid & Gas - Dedicated liquid filler adaptor
- Choice between 60 or 300 Bar pressure inlet
- Choice between: 10 - 50 - 200 Bar pressure reducer
- 1,8m highpressure hose with anti-whip cable
- 1/4"SAE female
- Direct connection on the CO2 bottle



Version	Hose	Isolation valve	Liquid connector	Reference		Pressure (max.)	
				Reducer	Type	Inlet	Outlet
Complete	x	x	x	FR4612			
Without Acc.				FR4602			
				E25	60Bar	10Bar	
				E35	300Bar	50Bar	
				E36	300Bar	200Bar	

## Blondelle CO2 Manifold with Quick-Couplers

Transcritical CO2 applications with SAE J639 Quick-Couplers



- Refrigerant: R744 (CO2)
- Transcritical: 80 bar & 160 bar (°F & PSI)
- 2 lane manifold, aluminium body
- Unique spindle valves, always tight without effort
- Class 1, 'A Lame Acier' Ø 80 gauges, Oil filled
- Hoses of 1,5m. Optional: Different lengths / Safety cable / Stainless steel sleeve

Supplied in a Blondelle plastic carrying case including:  
 Transcritical: 2 hoses, length 1,5meter with 1/4"SAE-1/4"NPT fittings for QCs, WP 200 Bar  
 + 1 service hose 1,5m, 1/4"SAE-1/4"SAE WP 200 Bar

Material	Other specs	Gauges		Reference			Scales		
		Diameter	Type	Manifold	Dial	Option	bar	psi	Refrigerants
Aluminium	Refrigeration SAE-J639 Airco SAE-J639 DIN SPEC74119	80 mm	Oil filled	FR4414					R744 (-1+80 Bar, -1+160 Bar) R744 (-1+100Bar, -1+160Bar) R744 (-1+80/1200, -1+160/2300 Bar/Psi)
				FR4424	E25	x	x	x	Option: charging hoses with shut-off valve
					E30	x			
					E37	x			
					V				

## Blondelle Refrigeration & Airconditioning CO2 Quick Couplers

CO2 Quick-couplers



- CO2 Quick Couplers
- Refrigeration SAE-J639: Reefer Containers, Trucks, Trailers
- Automotive airconditioning: SAE-J639 & DIN SPEC 74119
- CO2 / R744 (LP & HP)
- Pressure rating 200Bar

Reference	Description
FR1501-8793	CO2 LP quick coupler - refrigeration
FR1501-8794	CO2 HP quick coupler - refrigeration
FR1501-8795	CO2 LP quick coupler - automotive airconditioning
FR1501-8796	CO2 HP quick coupler - automotive airconditioning



## Blondelle 2 Lane NH3 Manifold

Total ammonia resistant manifold



- Completely ammonia resistant design
- All parts in contact with ammonia are stainless (inox 316L)
- 2 lane manifold (also available in 4-way on demand)
- Unique spindle valves, always tight without effort
- Class 1, 'A Lame Acier' Ø 80 or Ø 100 gauges
- Dry, oil filled (Ø 80), pulse-free

Supplied in a Blondelle plastic carrying case including: 3 hoses, length 1,5 meter with 1/4" GAS-1/4"GAS or 1/4"GAS-1/4"SAE fittings.

Material	Other specs	Gauges		Reference			Scales		
		Diameter	Type	Manifold	Dial	Option	bar	psi	Refrigerants
Aluminium	Complete case (1/4"GAS-1/4"GAS)	80 mm	Dry	FR2102					
			Oil filled	FR2302					
			Pulse-free	FR2502					
	Complete case (1/4"GAS-1/4"SAE)	100 mm	Dry	FR2103					
			Pulse-free	FR2503					
			Dry	FR2602					
	Case without hoses	80 mm	Oil filled	FR2702					
			Pulse-free	FR2802					
			Dry	FR2603					
	Case without hoses	100 mm	Pulse-free	FR2803					
			Dry	FR3102					
			Oil filled	FR3302					
			Pulse-free	FR3502					
			Dry	FR3103					
			Pulse-free	FR3503	E26	x			R717 (-1+10 Bar, -1+30 Bar)
					E31	x			R717+R723 (-1+10 Bar, -1+30 Bar)

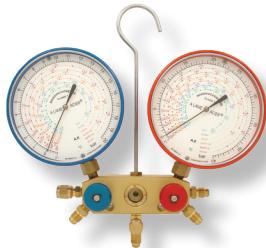
### How to read the tables?

The complete designation of a manifold comprises on the one hand the references of the manifold and gauge and on the other hand the reference of the refrigerants.

E.g.: 2 lane aluminium manifold, complete case, 80mm gauges, oil filled, refrigerant: NH3:  
Manifold: FR2302; Refrigerants: E26; Reference: FR2302-E26

## Blondelle 2 Lane Manifold, Ø 100

All refrigerants in one manifold.



- All combinations of refrigerants possible, up to 6 on 1 dial.
- Unique spindle valves, always tight without effort
- Class 1, 'A Lame Acier' gauges
- Ø 100, pulse-free
- 2 lane manifold
- Sight glass and hook
- Available with or without the appropriate charging hoses

Supplied in a Blondelle plastic carrying case including: 3 charging hoses, red, yellow and blue; length 1 m with 1/4" SAE fitting. Option: 1/4" SAE – 5/16" SAE adaptors

Material	Other	Gauges		Reference			Scales							
		Diameter	Type	Manifold	Dial	Option	bar	psi	Refrigerants					
Aluminium	Complete case	100 mm	Pulse-free	FR5802	E100	E42	x		R22+R134a+R404A+R410A+R407C vap/liq					
							x		R134a+R404A					
						A	Description of the option							
							2 1/4" SAE-5/16" SAE adaptors							

Other refrigerant combinations are possible.  
See p. 34-41 (Blondelle D100 gauge) or contact Panimpex.

## Blondelle Accessories for Manifolds



Part	Specification	Reference
Hook	All	AC0101
Carrying case	HFCs-HFOs & NH3	AC0102-02
	CO2 Transcritical	AC0102-03
Valve kit	HFCs-HFOs	AC0103-RES
Valve gaskets	HFCs -HFOs	AC0103-VAN
	CO2 Transcritical	AC0103-VAN-CO2
	NH3	AC0103-VAN-NH3
Central valve service kit	Central valve	AC0103-VAN-CEN
Valves	Blue (LP)	AC0104-BP-KIT
	Red (HP)	AC0104-HP-KIT
	Yellow (Vac.)	AC0104-VI-KIT
	Black (Charge)	AC0104-CH-KIT
	CO2 Transcr. Blue	AC0104-BP-CO2
	CO2 Transcr. Red	AC0104-HP-CO2
	CO2 Transcr. Yellow	AC0104-VI-CO2
	CO2 Transcr. Black	AC0104-CH-CO2
	NH3 Blue (LP)	AC0104-BP-NH3-KIT
	NH3 Red (HP)	AC0104-HP-NH3-KIT
Sight glass service kit	HFCs-HFOs	AC0106-7393
Anti-impact protection (only for vertical fitting)	Ø 60 mm Red	AC0308-6123.02
	Ø 60 mm Blue	AC0308-6123.03
	Ø 60 mm Yellow	AC0308-6123.04
	Ø 80 mm Red	AC0308-6124.02
	Ø 80 mm Blue	AC0308-6124.03
	Ø 80 mm Yellow	AC0308-6124.04



**BLONDELLE ACCESSORIES**

**HOSES & SPARES**

**AUTOMOTIVE & WHITE GOODS**



## Blondelle Charging Hoses



- Hoses for all HFCs and HFOs as well as for CO<sub>2</sub> and NH<sub>3</sub>
- Working pressures ranging from 40 bar to 285 bar (depending on diameter and material)
- Diameter : 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 1", 2"
- Material : Standard refrigeration hoses, reinforced thermoplastic or braided stainless steel
- Gaskets: neoprene, teflon, copper
- Fittings: standard is female, also available in male, other threads available on demand  
1/4"SAE, 5/16"SAE, 3/8"SAE, etc.  
1/4"GAS, 3/8"GAS, 1/2"GAS, 3/4"GAS, etc.  
1/4"NPT, 1/2"NPT, 1"NPT, 2"NPT, etc.
- The standard lengths are 1m, 1,5m, 2m, 3m and 5m (other lengths available on demand)
- Anti-whip cable on selected models (available on other types on demand)

Hose	Diameter	Strength - Use - Type	Fittings	Gasket	Color	Length (cm) -XXX	
X	X	X	X	X	X		
S	4 (1/4")	0 40bar - HFC/HFO	A R-1/4SAE - G-1/4SAE - BR - SD	0 Neoprene	2 Red	100	
		1 55bar - R410A/R32/R744Sub	B R-1/4SAE - G-1/4SAE-BV - BR - SD	1 Teflon (SAE)	3 Blue	150	
	8 (3/8")	2 200bar - CO <sub>2</sub> /NH <sub>3</sub> - thermoplastic & braided	C R-1/4SAE - G-5/16SAE - BR - SD	2 Copper	4 Yellow	200	
		3 135bar - CO <sub>2</sub> /NH <sub>3</sub> - braided	D R-1/4SAE - G-5/16SAE-BV - BR - SD	3 Teflon (GAS)	5 Black	300	
		4 175bar - CO <sub>2</sub> /NH <sub>3</sub> - thermoplastic	E R-1/4SAE - R-1/4SAE - GS	4 None	6 Braided	500	
		5 285bar - CO <sub>2</sub> /NH <sub>3</sub> - double braided	F R-1/4SAE - R-1/4NPT - GS			1000	
		6 120bar - CO <sub>2</sub> /NH <sub>3</sub> - braided	G R-1/4SAE - R-3/8SAE - BR - SD			1500	
	2 (1/2")	7 140bar - CO <sub>2</sub> /NH <sub>3</sub> - thermoplastic	H R-1/4GAS - R-1/4GAS - GS			2000	
		8 105bar - CO <sub>2</sub> /NH <sub>3</sub> - thermoplastic	I R-3/8SAE - G-3/8SAE - BR - SD			2500	
	5 (5/8")	9 50bar - CO <sub>2</sub> /NH <sub>3</sub> - braided	J R-1/4SAE - R-1/4SAE - BR - SD			3000	
		10 34bar - CO <sub>2</sub> /NH <sub>3</sub> - braided	K R-3/8SAE - R-3/8SAE - BR - SD			5000	
	6 (3/4")	11 90bar - CO <sub>2</sub> /NH <sub>3</sub> - braided	L R-1/4GAS - R-1/4SAE - GS				
		12 90bar - CO <sub>2</sub> /NH <sub>3</sub> - thermoplastic	M R-5/16SAE - G-5/16SAE - BR - SD				
	9 (5/16")	13 190bar - CO <sub>2</sub> /NH <sub>3</sub> - thermoplastic	N G-1/4SAE-BV - G-1/4SAE-BV - BR - SD				
			O R-5/16SAE - G-5/16SAE-BV - BR - SD				
			P R-1/4SAE - R-1/4SAE - GS - AW				
			Q R-3/8SAE - R-3/8SAE - GS - AW				
			R R-1/4NPT - R-1/4NPT - GS				
			S R-3/8GAS - R-3/GAS - GS - AW				
			T R-1/4SAE - R-1/4SAE - GS - SD - AW				
			U R-1/2GAS - R-1/2GAS - GS				
			V R-1/4SAE - R-1/4SAE - GS - SD				
			W R-1/4SAE - R-1/4SAE - GS - AW - PP				
			Y R-1/4SAE - G-1/4SAE - GS - AW				
			Z R-1/4SAE - R-1/4GGS-M				
			<p><i>Fittings are standard Female unless otherwise mentionned (M - Male)</i>  <i>R - Straight fitting</i>  <i>G - Bent fitting</i>  <i>M - Male fitting</i>  <i>BR - Brass</i>  <i>GS - Galvanized Steel</i>  <i>BV - Ball Valve</i>  <i>SD - Schraeder Depressor (2nd side)</i>  <i>AW - Anti-Whip Cable</i>  <i>PP - Plastic Protection (only on braided)</i>  <i>LH - Left Hand Thread</i></p>				



Hose	Diameter	Strength - Use - Type	Fittings	Gasket	Color	Length (cm) -xxx
X	x	x	X	x	x	
S	4 (1/4)	0 40bar - HFC/HFO	AC R-3/8SAE - R-3/8SAE - GS	0 Neoprene	2 Red	100
		1 55bar - R410A/R32/R744Sub	AD R-1/4GAS - R-1/2GAS - GS	1 Teflon (SAE)	3 Blue	150
	8 (3/8)	2 200bar - CO2/NH3 - thermoplastic & braided	AE R-1/4SAE - R-1/4NPT-M - GS - AW	2 Copper	4 Yellow	200
		3 135bar - CO2/NH3 - braided	AF R-3/8SAE-M - R-3/8SAE-M - GS	3 Teflon (GAS)	5 Black	300
		4 175bar - CO2/NH3 - thermoplastic	AG R-3/8SAE-M - R-3/8SAE-M - GS - AW	4 None	6 Braided	500
		5 285bar - CO2/NH3 - double braided	AH R-1/2GAS-M - R-1/2GAS-M - GS			1000
		6 120bar - CO2/NH3 - braided	AI R-1/2GAS-M - R-1/2GAS-M - GS - AW			1500
	2 (1/2)	7 140bar - CO2/NH3 - thermoplastic	AJ R-1/2GAS - R-1/2GAS - GS - AW			2000
		8 105bar - CO2/NH3 - thermoplastic	AO R-1/4SAE - R-1/4NPT - GS - AW			2500
	10 (1")	9 50bar - CO2/NH3 - braided	AP R-1"NPT-M - R-1"NPT-M - GS			3000
	20 (2")	10 34bar - CO2/NH3 - braided	AQ R-2"NPT-M - R-2"NPT-M - GS			5000
	6 (3/4")	11 90bar - CO2/NH3 - braided	AR R-3/4GAS - R-3/4GAS - GS			
		12 90bar - CO2/NH3 - thermoplastic	AS R-3/8GAS-LH - R-1/4SAE-M - GS			
	9 (5/16")	13 190bar - CO2/NH3 - thermoplastic	AT R-5/16SAE - R-5/16SAE - BR			
			AU R-5/16SAE - G-1/4SAE - BR			
			AV R-1/2SAE - G-1/2SAE - GS - AW			
<p><i>Fittings are standard Female unless otherwise mentionned (M - Male)</i></p> <p><i>R - Straight fitting</i></p> <p><i>G - Bent fitting</i></p> <p><i>M - Male fitting</i></p> <p><i>BR - Brass</i></p> <p><i>GS - Galvanized Steel</i></p> <p><i>BV - Ball Valve</i></p> <p><i>SD - Schraeder Depressor (2nd side)</i></p> <p><i>AW - Anti-Whip Cable</i></p> <p><i>PP - Plastic Protection (only braided)</i></p> <p><i>LH - Left Hand Thread</i></p>						



How to read the tables? Run through the table from left to right and choose the desired diameter, strength - use - type, fittings, gaskets, color and length.

E.g.: Reference: S83Q46-300 : (S)Hose, (8)3/8", (3)working pressure 135Bar - CO2/NH3 - braided stainless steel, (Q)3/8SAE-3/8SAE, (4)no gaskets, (6)braided, (300)3m

# Blondelle Charging Hoses - Typical versions



Set of charging hoses for CFC, HCFC and HFC							
Colour	Refrigerant	Fitting	Gaskets	Extra	Type	Length	Explanation
Red	Standard	Straight side 1/4" SAE - Bow side 1/4" SAE	Neoprene		S40A02		
			Neoprene	Ball valve	S40B02		
Blue	R410A	Straight side 1/4" SAE - Bow side 5/16" SAE	Teflon		S40A12		
			Teflon	Ball valve	S40B12		
Yellow	Standard	Straight side 1/4" SAE - Bow side 1/4" SAE	Teflon		S41C12		
			Teflon	Ball valve	S41D12		
Yellow	R410A	Straight side 1/4" SAE - Bow side 5/16" SAE	Neoprene		S40A03		
			Neoprene	Ball valve	S40B03		
		Straight side 1/4" SAE - Bow side 1/4" SAE	Teflon		S40A13		
			Teflon	Ball valve	S40B13		
		Straight side 1/4" SAE - Straight side 3/8" SAE	Teflon		S41C13		
			Teflon	Ball valve	S41D13		
		Straight side 1/4" SAE - Straight side 1/4" SAE	Neoprene		S40A04		
			Neoprene	Ball valve	S40B04		
		Straight side 1/4" SAE - Straight side 1/4" SAE	Teflon		S40A14		
			Teflon	Ball valve	S40B14		
		Straight side 1/4" SAE - Straight side 1/4" SAE	Neoprene		S40G04		
			Teflon		S40G14		
		Straight side 1/4" SAE - Straight side 1/4" SAE	Neoprene		S40J04		
			Teflon		S40J14		
						100	100 cm
						150	150 cm
						200	200 cm
						300	300 cm
						500	500 cm
						>5m	on demand

Hoses for CO2 (R744) & NH3 (R717)							
Colour	Refrigerant	Fitting	Gaskets	Extra	Type	Length	Explanation
Red	CO2 Subcritical	Straight side 1/4" SAE - Bow side 1/4" SAE	Teflon		S41A12		
Blue	CO2 Subcritical	Straight side 1/4" SAE - Bow side 1/4" SAE	Teflon	Ball valve	S41B12		
Yellow	CO2 Subcritical	Straight side 1/4" SAE - Bow side 1/4" SAE	Teflon	Ball valve	S41A13		
Black	CO2 Transcritcal	Straight side 1/4" SAE - Straight side 1/4" SAE	Teflon	Ball valve	S41B13		
		Straight side 1/4" GAS -Straight side 1/4" GAS	Teflon		S41A14		
Braided	NH3	Straight side 1/4" GAS - Straight side 1/4" SAE	Teflon		S41B14		
		Straight side 1/4" SAE - Straight side 1/4" SAE	Copper		S41B14		
	NH3	Straight side 1/4" SAE - Straight side 1/4" SAE	PTFE		S42E25		
		Straight side 1/4" GAS -Straight side 1/4" GAS	PTFE		S42H35		
	CO2Transcritcal	Straight side 1/4" GAS - Straight side 1/4" SAE	Copper		S42L35		
		Straight side 1/4" SAE - Straight side 1/4" SAE	Copper		S42V25		
		Braided stainless steel with safety cable, 1/4" SAE - 1/4" SAE	Copper	Schraeder Depressor	S42P26	100	100 cm
			Copper			200	200 cm
			Copper			300	300 cm
			Copper			500	500 cm
			Copper			2000	20 m
			Copper			3000	30 m
			Copper	Schraeder Depressor	S42T26	300	300 cm
			Copper			3000	300 cm
		Braided stainless steel with safety cable, 1/4" SAE - 1/4" SAE	Copper		S83Q46	300	300 cm
			Copper				

# Blondelle Charging Hoses - Typical sets



Set of charging hoses for CFC, HFC, HCFC, CO2 & NH3					
Refrigerant	Fitting	Gaskets	Length	Extra	Type
Standard, WP 40bar	1/4"SAE - 1/4"SAE	Neoprene	100 cm	Ball valve	T3AA
			150 cm	Ball valve	T3AB
			200 cm	Ball valve	T3AC
			300 cm	Ball valve	T3AD
			100 cm	Ball valve	T3BI
		Teflon	150 cm	Ball valve	T3BG
			200 cm	Ball valve	T3AE
			500 cm	Ball valve	T3AF
			1000 cm	Ball valve	T3AG
			150 cm	Ball valve	T3AH
R410A, WP 55bar	3/8"SAE - 3/8"SAE	Teflon	200 cm	Ball valve	T3BJ
			500 cm	Ball valve	T3BH
			1000 cm	Ball valve	T3BK
			100 cm	Ball valve	T3BN
			150 cm	Ball valve	T3AM
		Teflon	100 cm	Ball valve	T3AO
			150 cm	Ball valve	T3AI
			200 cm	Ball valve	T3AJ
			200 cm	Ball valve	T3AK
			200 cm	Ball valve	T3AL
CO2 Subcritical, WP 55bar	1/4"SAE-1/4"SAE	Teflon	100 cm	Ball valve	T3BL
			150 cm	Ball valve	T3BM
			200 cm	Ball valve	T3AQ
			100 cm	Ball valve	T3AZ
			150 cm	Ball valve	T3AR
		Copper	200 cm	Ball valve	T3BA
			100 cm	Ball valve	T3BC
			150 cm	Ball valve	T3BD
			300 cm	Ball valve	T3BE
			500 cm	Ball valve	T3DV
CO2 Transcritical, WP 200bar	1/4"SAE-1/4"SAE	Copper	100 cm	Ball valve	T3DM
			150 cm	Ball valve	T3AV
			300 cm	Ball valve	T3AW
			500 cm	Ball valve	T3AX
			100 cm	Ball valve	T3AY
		EPDM	150 cm	Ball valve	T3DQ
			300 cm	Ball valve	T3DW
			500 cm	Ball valve	
			100 cm	Ball valve	
			150 cm	Ball valve	
NH3, WP 200bar	1/4"GAS-1/4"GAS	EPDM	100 cm	Ball valve	
			150 cm	Ball valve	
			300 cm	Ball valve	
			500 cm	Ball valve	
			100 cm	Ball valve	
		Copper	150 cm	Ball valve	
			300 cm	Ball valve	
			500 cm	Ball valve	
			100 cm	Ball valve	
			150 cm	Ball valve	
CO2 Transcritical, WP-200Bar Braided stainless steel, with Safety Cable	1/4"SAE-1/4"SAE	Copper	300 cm	Ball valve	
			500 cm	Ball valve	
			100 cm	Ball valve	
			150 cm	Ball valve	
			300 cm	Ball valve	
		Copper	500 cm	Ball valve	
			100 cm	Ball valve	
			150 cm	Ball valve	
			300 cm	Ball valve	
			500 cm	Ball valve	



Spare Parts	Type	Reference
Bag of 6 gaskets	Neoprene (1/4"SAE) Teflon (1/4"SAE)	AC0103-TUYN AC0103-TUYT
	Copper (1/4"SAE CO2Tr.)	AC0103-TUYC
	Teflon (1/4"GAS)	AC0103-TUYE
Bag of 3 Schrader depressors	/	AC0105

# Blondelle Residential - White Goods

Gauges & Manifolds for White goods appliances



- 7bar - 100 psi gauge with extended vacuum zone in inhg and mbar
- With or without Refrigerant temperature : R134a & R600a
- Developped for the residential service engineer
- Unique spindle valve, always tight without effort
- Class 1, 'A Lame Acier' Ø 80 oil filled gauge

Reference	Description
FR1002-E35	Manifold with gauge, hoses, hook and gasket service kit
FR1002-E35V	Manifold with gauge, hoses with ball valves, hook and gasket service kit
MA1003V18B-1198	Replacement gauge with 1/8" NPT connection

## Blondelle Spindle Valve Mechanism

Unique valve, always tight without effort

Valve closed



Valve opened





## Blondelle F-GAS - PED Calibration Gauge

High precision gauge with 'aged and stabilised' mechanics - 3 pressure ranges



- PED Calibration gauge
- Used for PED pressure testing and for verification of service manifolds
- Comes with a certificate referring to a higher standard
- Aged and stabilised mechanics
  
- Class 0,5
- 'A Lame Acier', dry gauge
- 25Bar Ø100, 60Bar Ø150, 180Bar Ø100
- Storage case



### Reference:

- 0-25Bar : MA1202V14S-4031-82-CET
- 0-60Bar : MA1305V14S-9038-82-CET
- 0-180Bar : MA1202V14S-4016-82-CET

## Blondelle Automotive

Automotive tools & accessories



- Refrigerant: R134a & HFO R1234yf & R1234ze & R744 (CO2)
- 2 lane manifold, aluminium body
- Unique spindle valves, always tight without effort
- Class 1, 'A Lame Acier' Ø 80 gauges
- Dry, oil filled (Ø 80), pulse-free

Supplied in a Blondelle plastic carrying case including:  
2-way manifold with hook, 3 hoses, red, blue and yellow, length 1 meter with 1/4" SAE fittings.

Material	Other specs	Gauges		Reference			Scales		
		Diameter	Type	Manifold	Dial	Option	bar	psi	Refrigerants
Aluminium	Complete case & hoses	80 mm	Dry	FR1104					
			Oil filled	FR1304					
			Pulse-free	FR1202					
	Complete case & hoses & Quick Couplers Airco SAE-J639 DIN SPEC74119		Oil filled	FR4424	E38	x	x	R134a+R1234yf+R1234ze	
					E25	x		R744 (-1+80 Bar, -1+160 Bar)	
					E37	x	x	R744 (-1+80/1200, -1+160/2300 Bar/Psi)	
				V	Option: charging hoses with ball valve				

How to read the tables?

The complete designation of a manifold comprises on the one hand the references of the manifold and gauge and on the other hand the reference of the refrigerants.

E.g.: 2 lane aluminium manifold, complete case, 80mm gauges, oil filled: Manifold: FR1304; Refrigerants: E38; Reference: FR1304-E38

## Blondelle Automotive Quick Couplers

Standard / OEM - BMW / CO2



- Automotive airconditioning quick couplers
- Standard (LP & HP)
- BMW (OEM-version)
- CO2 / R744 (LP & HP) - Automotive airconditioning: SAE-J639 & DIN SPEC 74119



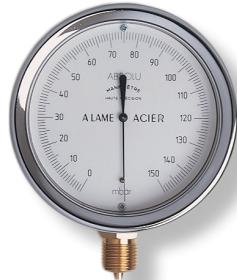
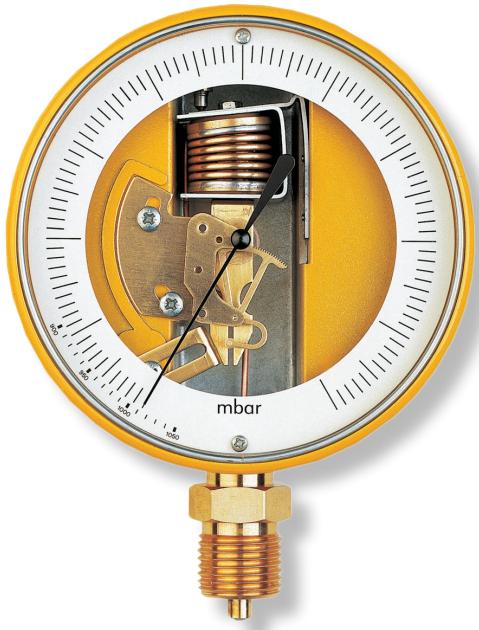
Reference	Description
FR1501-6472	LP quick coupler
FR1501-6473	HP quick coupler
FR1501-6475	HP BMW quick coupler (OEM)



Reference	Description
FR1501-8795	CO2 LP quick coupler - automotive airconditioning
FR1501-8796	CO2 HP quick coupler - automotive airconditioning



# BLONDELLE VACUUM GAUGES



# Blondelle Vacuum Gauge, Ø 60, Composite

High-end vacuum gauge



- High accuracy vacuum gauge
- Vacuum gauge: -760 mmHg to 0 or -1000 mbar to 0
- Pseudo-absolute: 0 +1000 mbar or 0 +1000 mbar/inHg
- Class 1, 'A Lame Acier'
- Ø 60, dry or oil filled
- Outlet: vertical or rear
- Fitting: 1/4" SAE or 1/8" NPT
- Options: safety valve, indicator needle, 1/4" SAE female fitting

Version	Outlet	Fitting	Reference			Scales	
			Case	Dial	Option	Relative	Pseudo-absolute
Dry	Vertical	1/4" SAE	MA0602V14S	6099 6103 6089	28 01 45 AC	-760 mmHg to 0 -1000 mbar to 0 0+1000 mbar	Description of the options
		1/8" NPT	MA0602V18B				
	Rear	1/4" SAE	MA0602A14S				
		1/8" NPT	MA0602A18B				
	Oil filled	1/4" SAE	MA1002V14S				
		1/8" NPT	MA1002V18B				
		1/4" SAE	MA1002A14S				
		1/8" NPT	MA1002A18B				

#### How to read the tables?

The complete designation of a vacuum gauge comprises the reference of the casing, followed by the reference of the dial.

E.g.: Vacuum gauge D60mm composite, oil filled, rear outlet, 1/4"SAE, -1000mbar to 0, needle indicator:  
Case: MA1002A14S; Dial: 6103; Option 01; Reference: MA1002A14S-6103-01

# Blondelle Vacuum Gauge, Ø 80, Composite

High-end vacuum gauge



- High accuracy vacuum gauge
- Vacuum gauge: -760 mmHg to 0 or -1000 mbar to 0
- Pseudo-absolute: 0 +1000 mbar or 0 +1000 mbar/inHg
- Class 1, 'A Lame Acier'
- Ø 80, dry, oil filled or pulse-free
- Outlet: vertical or rear
- Fitting: 1/4" SAE or 1/8" NPT
- Options: safety valve, indicator needle, 1/4" SAE female fitting

Version	Outlet	Fitting	Reference			Scales	
			Case	Dial	Option	Relative	Pseudo-absolute
Dry	Vertical	1/4" SAE	MA0603V14S	6100 6104 6090	-760 mmHg to 0 -1000 mbar to 0	Relative	Pseudo-absolute
		1/8" NPT	MA0603V18B				
	Rear	1/4" SAE	MA0603A14S				
		1/8" NPT	MA0603A18B				
Oil filled	Vertical	1/4" SAE	MA1003V14S	28 01 45 AC	0+1000 mbar	Description of the options	
		1/8" NPT	MA1003V18B				
	Rear	1/4" SAE	MA1003A14S				
		1/8" NPT	MA1003A18B				
Pulse-free	Vertical	1/4" SAE	MA0901V14S	28 01 45 AC	Safety valve (+60Bar) Indicator needle (not for oilfilled) 1/4" SAE female fitting Anti-impact protection		
		1/8" NPT	MA0901V18B				
	Rear	1/4" SAE	MA0901A14S				
		1/8" NPT	MA0901A18B				

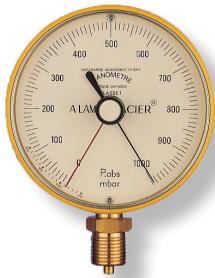
#### How to read the tables?

The complete designation of a vacuum gauge comprises the reference of the casing, followed by the reference of the dial.

E.g.: Vacuum gauge D80mm composite, dry, rear outlet, 1/4"SAE, 0+1000mbar, needle indicator, safety valve: Case: MA0603A14S; Dial: 6090; Option: 2801; Reference: MA0603A14S-6090-2801

## Blondelle Vacuum Gauge Ø100, Aluminium

High-end vacuum gauge



- High accuracy vacuum gauge
- Absolute reading possible by adjusting the needle to the day's atmospheric pressure
- Ø 100, aluminium case
- Class 1, 'A Lame Acier'
- Fitting: 1/2" GAZ, 1/4" SAE or 1/8" NPT
- Dry
- Options: safety valve, indicator needle, 1/4" SAE female fitting

Version	Outlet	Fitting	Reference			Scales
			Case	Dial	Option	
Dry	Vertical	1/2" GAZ	MA0107V12G			
		1/8" NPT	MA0107V18B			
		1/4" SAE	MA0107V14S			
				1175	-250mbar+0	
				4040	-500mbar+500mbar	
				6095	0+1000 mbar	
						Description of the options
					28	Safety valve (+60Bar)
					01	Indicator needle
					45	1/4" SAE female fitting

### How to read the tables?

The complete designation of a vacuum gauge comprises the reference of the casing, followed by the reference of the dial.

E.g.: Pseudo-Absolute Vacuum gauge D100mm aluminium, dry, vertical outlet, 1/2"GAZ, 0+1000mbar, indicator: needle. Case: MA0107V12G; Dial: 6095; Option: 01; Reference: MA0107V12G-6095-01

## Blondelle 4 Lane Manifold 'Special Vacuum'



- Unique spindle valves, always tight without effort
- Class 1, 'A Lame Acier' Ø 80 gauges
- 4 lanes - 4 valves
- Ø 80
- All combinations of refrigerants
- Oil filled
- Sight glass and hook
- Available with or without the appropriate charging hoses

Supplied in a Blondelle plastic carrying case including:

3 charging hoses; red, yellow and blue; length 1,5 m with 1/4" SAE fitting and 1 yellow charging hose, length 1 m with 3/8" fitting. For R410A High Resistance hoses with Teflon gaskets. Red and blue hoses are fitted with a 5/16" nut at the curved side. Optional: ball valves.

References: see p.36

# Blondelle Absolute Vacuum Gauge, Ø 100, Alu

Extreme precision



- High accuracy vacuum gauge
- Built-in absolute vacuum reference
- Eliminates the effects due to variations of the atmospheric pressure
- No re-adjustment of the needle to 0 is required
- 1,5 mBar precision
- Ø 100, aluminium case
- Dry
- Fitting: 1/2" Gaz or 1/4" SAE

Version	Outlet	Fitting	Reference			Scales Absolute
			Case	Dial	Option	
Dry	Vertical	1/2" GAZ 1/4" SAE	MA1501V12G	6098	0+150 mbar  Description of the option  Safety valve (+60Bar) 1/4" SAE female fitting	
			MA1501V14S			

#### How to read the tables?

The complete designation of a vacuum gauge comprises the reference of the casing, followed by the reference of the dial.

E.g.: Absolute Vacuum gauge D100mm aluminium, dry, vertical outlet, 1/4"SAE, 0+150mbar  
Case: MA1501V14S; Dial: 6098 Reference: MA1501V14S-6098

**Blondelle 1 Lane Manifold with Vacuum Gauge**

- Unique spindle valve, always tight without effort
- Class 1, 'A Lame Acier'
- Ø 60 & Ø 80 gauge
- Dry, oil filled or pulse-free (Ø 80 only)
- Available with the appropriate charging hoses

Supplied with gauge mounted on 1-way manifold including 2 yellow charging hoses, length 1 m with 1/4" SAE fitting. Options: safety valve, indicator needle, 1/4" SAE female fitting, ball valves.

Ø 60 Manifold Material	Vacuum gauge Type	Reference			Scales	
		Manifold	Scales	Options	Relative	Pseudo-absolute
Aluminium	Dry Oil-filled	FR0801				
		FR1001				
		6099			-760 mmHg to 0	
		6103			-1000 mbar to 0	
		6089			0+1000 mbar	
					Description of the options	
			28		Safety valve (+60Bar)	
			01		Indicator needle (not for oilfilled)	
			V		Charging hoses length 1m with ball valve	
			AC		Anti-impact protection	

Ø 80 Manifold Material	Vacuum gauge Type	Reference			Scales	
		Manifold	Scales	Options	Relative	Pseudo-absolute
Aluminium	Dry Oil-filled Pulse-free	FR0802				
		FR1002				
		FR0901				
		6100			-760 mmHg to 0	
		6104			-1000 mbar to 0	
		6090			0+1000 mbar	
					Description of the options	
			28		Safety valve (+60Bar)	
			01		Indicator needle (not for oilfilled)	
			V		Charging hoses length 1m with ball valve	
			AC		Anti-impact protection	

**How to read the tables?**

The complete designation of a manifold comprises on the one hand the references of the manifold and vacuum gauge and on the other hand the reference of the scale.

E.g.: 1-lane aluminium manifold, 80mm gauge, oil filled, charging hoses length 1m with ball valve, scale:-1000mbar to 0: Manifold: FR1002; Scale: 6104; Reference: FR1002-6104-V



# SUPER-SEAL

super-seal



## **Super Seal**

Seals and dries



- 947KIT - Super Seal Advanced, ACR, Professional Formula, for smaller systems. (<5kW)
- 944KIT - Super Seal Advanced, HVACR, Professional Formula, for most residential systems. (5kW – 17kW)
- 948KIT - Super Seal Advanced, Commercial, Commercial and Industrial Strength Formula. (>17kW)
- 946KIT - Super Seal Advanced, Automotive – Premium
  
- Advanced sealing power with DRY R™ to eliminate 20 drops of water and prevent acid & waxing
- Faster – no recovery, no pump down
- Contaminant free
- Contains no butane or propane
- Compatible with all oils & refrigerants

- Delivered with manual and hose

## **Super Change**

System retrofit



- 918KIT - Fast & easy retrofit flush replacer
  
- Eliminates oil change out
- Links Mineral/AB oil to any HFC refrigerant
- Replaces R22/R404A line set conversion flush
- Maximizes oil return & heat transfer on retrofit & drop in refrigerants

- Delivered with manual and hose



# REFRIGERATION TECHNOLOGIES



### Big Blu

Micro-leak detector



- Bubble solution
- Sensitivity: 20 grams/year
- Non toxic, non corrosive, biodegradable
- Strong and persistent film
- Approved for use on oxygen systems

### Big Blu - Sub-Zero (Super Blu)

Finding leaks in extreme circumstances



- Bubble solution
- Usage under extreme conditions; -35°C to 90°C
- Non toxic, biodegradable
- Approved for use on oxygen systems



## Nylog

Install without leaks

Nylog Red



Nylog Blue



- Prevents leakage through refrigeration gaskets and threaded fittings
- Never hardens
- Remains temperature and vibration resilient
- Nylog Red: installations with CFC and HCFC
- Nylog Blue: installations with HFC and HFO

## Viper Wet-Rag

Heat-blocking putty



### BETTER THAN A WET RAG

- This reusable heat blocking putty keeps piping and sensitive components cooler than traditional wet rag
- Applications during brazing, soldering, or welding
- It is made from the same materials found in the heat shield of the space shuttle.
- Simply apply, remove, and reuse.
- Reusable like a Wet Rag
- Protects surfaces, valves, and other sensitive parts from heat damage
- Blocks direct and conductive heat transfer
- No mess formula
- Use with Map/Pro, Oxy/Acetylene, Mig, Tig, Arc, and propane torches
- Non-Toxic
- Reusable - For up to 40 applications
- Conductive Heat - Blocks conductive heat transfer to protect sensitive parts
- Direct Heat - Blocks direct heat up to 1100°C
- Indicator Dye - Special dye fades over time to indicate when replacement is needed





# MAINTENANCE & CALIBRATION



TEST CERTIFICATE		
CUSTOMER	XXXXXXXXXXXX	XXXXXX
Year ref.	Our ref.	Date
XXXXXXXXXXXX	XXXXXX	1/1/12
PRODUCT		
1. The Leak Detector was first checked to insure proper functioning of its operation.		
2. The detector was submitted to a sensitivity test according to test procedure EN16002.		
3. For this procedure the following equipment was used: a "Solfinger" Leak Detector, a "Solfinger" Leak Standard R134a - 5g/year and a "Solfinger" Test Pump. According to the manufacturer's instructions, the detector was calibrated to detect leaks down to 0.001 g/year. Under EN Standard 16002 with metering device "Solfinger" the detector was calibrated to 0.001 g/year.		
4. The "Solfinger" Leak Standard" was calibrated to the level of 5 grams. It is submitted to the EN16002.		
5. The leak detecting device PX-d functions according to the specifications.		
Test Date First: V.P. of Sales Signature		
Date of certificate: 11/1/12		



### PX-Calibrate

The only portable, easy-to-store leak with a traceable certificate and a shut-off valve

F-GAS COMPLIANT VERIFICATION



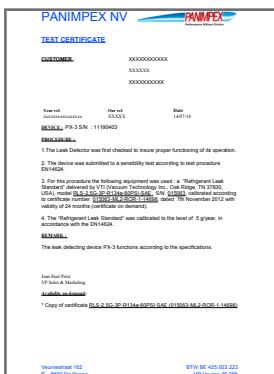
- Verify your refrigerant leak detector according to the F-GAS EN14624:2020
- Calibrated reference leak with HFC R134a or HFO R1234yf
- Can be delivered with a Traceable & Calibrated ISO17025 Certificate on demand for yearly verification
- Shut-off valve - doesn't leak all the time
- 5g/year
- Easy to store
- Sintered leak technology powered by HTP

- Delivered in a compact, easy to store can.

- Versions:
  - PX-Calibrate-HFC: periodical function test with R134a
  - PX-Calibrate-HFO: periodical function test with R1234yf
  - PX-Calibrate-HFC-CET: R134a leak supplied with ISO17025 traceable certificate for yearly verification
  - PX-Calibrate-HFO-CET: R1234yf leak supplied with ISO17025 traceable certificate for yearly verification

## Calibration

Pressure gauges, Vacuum gauges, Temperature gauges, Scales, Recovery Units

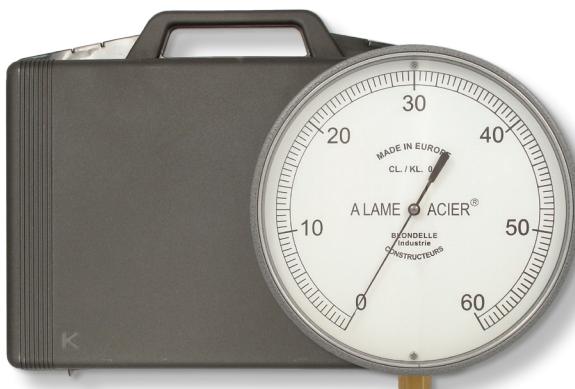


- Leak detectors
- Gauges
- Manifolds
- Vacuum gauges
- Electronic manifolds & sensors
- Scales
- Recovery units
- ...

■ Contact us for to find out more about our services

## Blondelle F-GAS - PED Calibration Gauge

High precision gauge with 'aged and stabilised' mechanics - 3 pressure ranges



- PED Calibration gauge
- Used for PED pressure testing and for verification of service manifolds
- Comes with a certificate referring to a higher standard
- Aged and stabilised mechanics
- Class 0,5
- 'A Lame Acier', dry gauge
- 25Bar Ø100, 60Bar Ø150, 180Bar Ø100,
- Storage case

### Reference:

- 0-25Bar : MA1202V14S-4031-82-CET
- 0-60Bar : MA1305V14S-9038-82-CET
- 0-180Bar : MA1202V14S-4016-82-CET







SMART MOBILE MEASURING



GAUGES & VACUUM GAUGES  
MANIFOLDS & HOSES



SUPER-SEAL



REFRIGERATION TECHNOLOGIES



MAINTAINANCE & CALIBRATION



# PANIMPEX

Measurement Solutions

