



Making Your Job More Enjoyable

Manifold Gauge
VRM2-B-0401/VRM2-B-0501



VALUE Mechanical & Electrical Products CO., LTD

Add: No. 5 Third Street, East Industrial Park, Wenling, Zhejiang, China

Tel: +86-576-86191959

Email: value@worldvalue.cn www.worldvalue.cn

VALUE • Quality Assurance

NAVTEK™
High-end Series

CONTENT

Safety guide	01
Parts and specifications	02
Technical parameter	03
Operation instruction	03
Maintenance	04

Dear User,

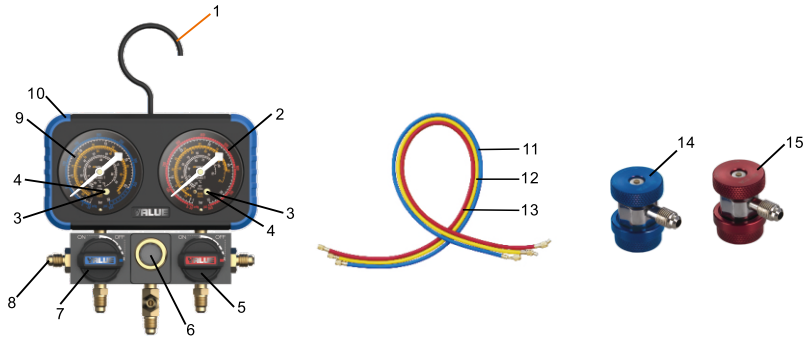
Thank you for choosing VALUE Product. For best result and right way to use it, please read this operating manual carefully before using. We suggest that you'd better keep this manual with the product or a place where you can easily find for later reference.

Safety guide

WARNING

- 1.1 The manifold has been designed specially to measure pressure in refrigeration equipment. The manifold may only be used by trained technicians.
- 1.2 It must not be used for other than refrigeration applications. The manifold is not suitable for liquids or gases other than those indicated on the gauge.
- 1.3 It must not be used with pressures higher than the pressure scale indicated on the high-pressure gauge of the manifold.
- 1.4 Safe goggles and gloves must be worn at all time during the use of the manifold.
- 1.5 The gauges are correctly calibrated at the factory before shipment. If calibration is required, remove the lens. Insert a straight blade screwdriver into the adjusting screw on the gauge face.
- 1.6 Clean up the connection interfaces in order to prevent contamination entering to refrigeration system.
- 1.7 The charging hoses must be checked with oil residue cleaned off before each use. A visible check is also necessary to ensure that the hoses and the connection are undamaged and tight.
- 1.8 Do not contact refrigerant directly as it may cause personal injury.
- 1.9 Do not vent refrigerant into the atmosphere.
- 1.10 The seals and gaskets of the manifold gauges are parts subject to the wear and tear of use, and must therefore be replaced from time to time. The manifold is to be tested regularly to ensure the valves are still tight.
- 1.11 Make sure to use the right pressure gauge.
- 1.12 Manifolds are high precision measuring instruments. After use, disconnect all hoses from the system and open valves and then store the manifold always in the carrying case.
- 1.13 Dispose of the used manifold gauges according to the local rules and regulations.

Parts and specifications



NO.	Name	NO.	Name
1	Hook	9	Low pressure gauge
2	High pressure gauge	10	Sheath
3	Cap	11	Blue hose
4	Zero adjusting screw	12	Yellow hose
5	High pressure valve	13	Red hose
6	Sight glass	14	Blue quick coupling
7	Low pressure valve	15	Red quick coupling
8	Connector		

Technical parameter

Model	VRM2-B-0401	VRM2-B-0501
Refrigerant Type	R22/R134a/R410A/R407C	R22/R134a/R404A/R407C
Gauge Diameter	Φ68	Φ68
Pressure Range	-30 inHg to 800 psi; -30 inHg to 550 psi	-30 inHg to 400 psi; -30 inHg to 350 psi
Hose	Red, Blue: 1/4"-5/16" Yellow: 1/4"-1/4" With 2 pcs adapters: Male: 5/16" SAE, Female: 1/4" SAE	Red, Blue & Yellow 1/4"-1/4"
Standard Length	3×150 cm	3×150 cm

Operation Instrucion

1. Pressure testing

- 1.1 Close both valves.
- 1.2 Connect blue hose to the low side of system, connect red hose to the high side of system.
- 1.3 Running the system, read the testing pressure indicated on manifold gauges.
- 1.4 After testing,turn off the system. Then disconnect the hoses from the system and open all valves, make sure not vent refrigerant into the atmosphere.
- 1.5 In order to prevent venting the refrigerant into the atmosphere, you can use a VALUE recovery machine to recover any refrigerant remained in the hoses or manifold gauges.

2. Evacuation of a system

- 2.1 Connect blue hose to the low side of system, connect red hose to the high side of system and connect yellow hose to vacuum pump.
- 2.2 Open both valves.
- 2.3 Turn on the vacuum pump.
- 2.4 Check pressure on low pressure gauge for 3 to 5 minutes, if desired vacuum reached, close valves, then turn off the vacuum pump.
- 2.5 Observe the pressure on the low-pressure gauge, if the pointer is stick to -30 inHG for 3 to 5 minutes, the system evacuation is completed. If not, repeat the steps from 2.2 to 2.4.

