



### Refractometer - Brix

Range 0 - 32%

### Refractometer - Salt/SG

Range 0 - 100%



### Refractometer - Brix

Range 0 - 50%    Range 28 - 62%

Range 45 - 80%    Range 58 - 90%

Range 0 - 10%

Range 0 - 18%

### Refractometer - Salt/SG

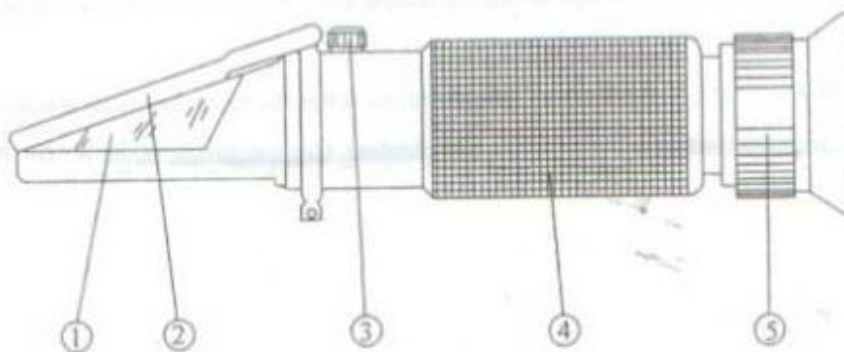
Range 0 - 28%

## High Concentration Brix Refractometer Operation Instruction

### SERIES

STYLE	MODEL	MEASURING RANGE	RESOLUTION	SIZE(mm)	NW(g)
Brix	VBR82	45-82%	0.2%	27×40×160	175
	VBR90	58-90%	0.5%	27×40×150	175
	VBR92	58-92%	0.2%	27×40×160	175
Brix/ATC	VBR82T	45-82%	0.2%	27×40×160	215
	VBR90T	58-90%	0.5%	27×40×160	215
	VBR92T	58-92%	0.2%	27×40×160	215

### NAME OF COMPONENTS



1.Prism    2.Cover plate    3.Calibration Screw    4.Mirror tube    5.Eyepiece(Adjusting ring of diopter)

## METHOD OF OPERATION

- 1.Prepare: Aim the front end of the refractometer in the direction of a bright light, and adjust the adjusting ring of diopter(5) until the reticle can be seen clearly.
- 2.Calibration: Drop one drop of calibration solution on the bright surface of the calibration block. Operate the cover plate(2),stick the calibration block on the surface of the prism, and press it lightly with your hand, so that it can not slide down. Rotate and adjust the calibration screw(3) to make the light/blue boundary coincide with reference line is Brix 78.8%.
- 3.Measurement:Open the cover plate(2),clean the surface of prism with a piece of soft paper, drop 1~2 drops of the solution to be measured. Close the cover plate, and press it lightly, then read the corresponding scale of light and dark boundary. The reading is the brix of the measured solution.
- 4.After measurement, clean the surface of prism and cover plate with moist gauze, and it should be stored carefully.

## ATTENTION AND MAINTENANCE

- 1.Adjustment for the null liquid and specimen should be in the same temperature. Once the temperature moves greatly, the null point should be adjusted once per 30 minutes.
- 2.After usage, do not use water to wash the instrument, so as to avoid water entering the inside of the instrument.
- 3.This is a precision optical instrument. Handle it gently and take good care of it. Do not touch or scratch the optical surface. Please keep it in a dry, clean and non-corrosiveness environment, to prevent the surface from turning mouldy and foggy. Please avoid strong shock during transportation.
- 4.If the consumers use the instrument in accordance with the mentioned method of usage, the optical performance should not be changed.

## TEMPERATURE COMPENSATION

The reference of temperature is 20°C. In operation, the temperature should be made according to the correcting table .

ATC is mounted with Automatic Temperature Compensation, it has the extra function, it enables user concentrate on measurements without worrying the temperature. Compensation range is 10~30°C.

## ACCESSORY

- 1.eyeshade
- 2.Suction tube
- 3.Scw driver
- 4.Calibration solution

