

# Quick Service Guide: RIX 2V3B Booster Compressor

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*This document was developed by Build Health International for the Global Fund's Project BOXER.*

This quick service guide for the RIX 2V3B booster compressor is designed to support technicians during preventative maintenance on booster compressors. It is not a step-by-step instruction manual for completing maintenance, but rather a reference tool to assist with the more challenging and detail-oriented aspects of the process. On the following pages, you will find reference points such as:

- Proper valve assembly
- Correct stage placement
- Identification and positioning of rings and components

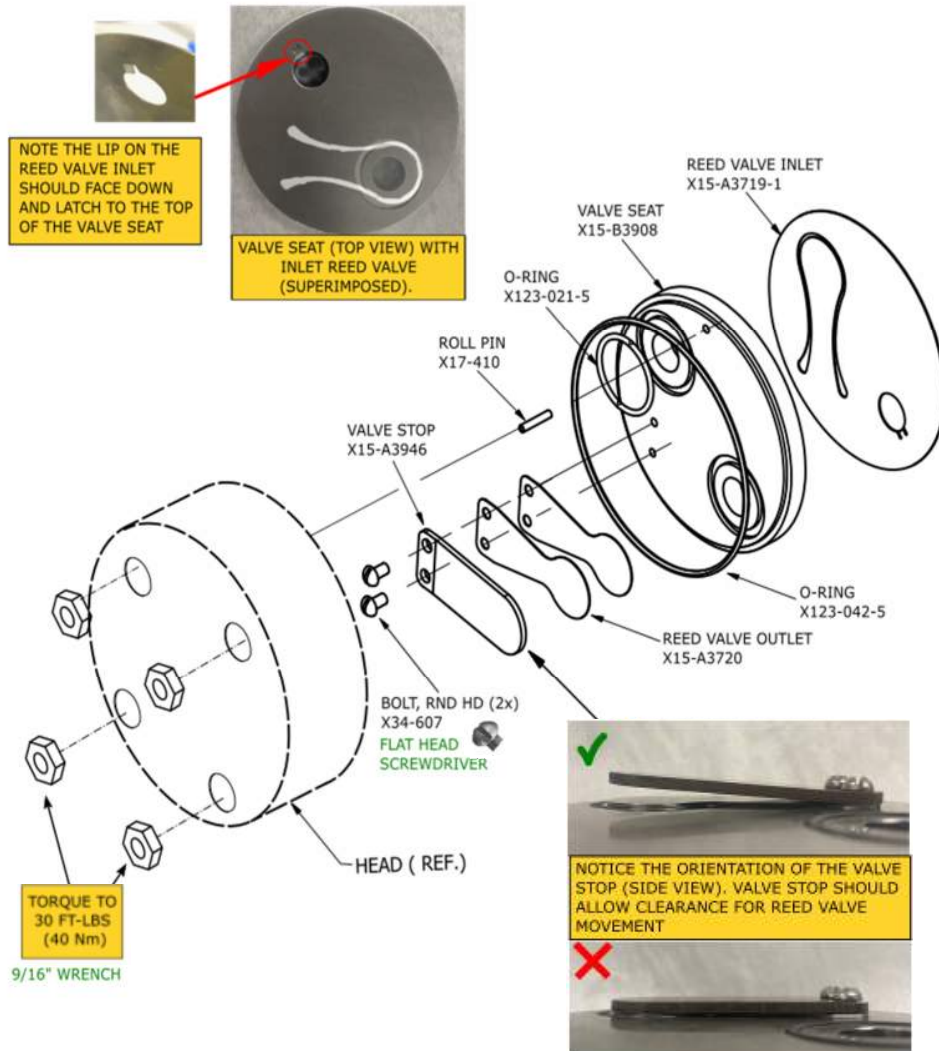
The intent is to provide clear, visual reminders that help reduce errors and ensure efficient, accurate maintenance.

The following pages are intended to be printed on A4 size paper and laminated for durability. Make sure to print at 100% scale without enlarging or modifying any of the image images to ensure the sizing guide sheets remain accurate. This is critical for verifying O-ring sizes, which will not display correctly if the images are resized. Store this guide in close proximity to the booster compressor for easy access during maintenance. By keeping this guide available at the point of use, technicians can quickly confirm critical details without searching through lengthy manuals.

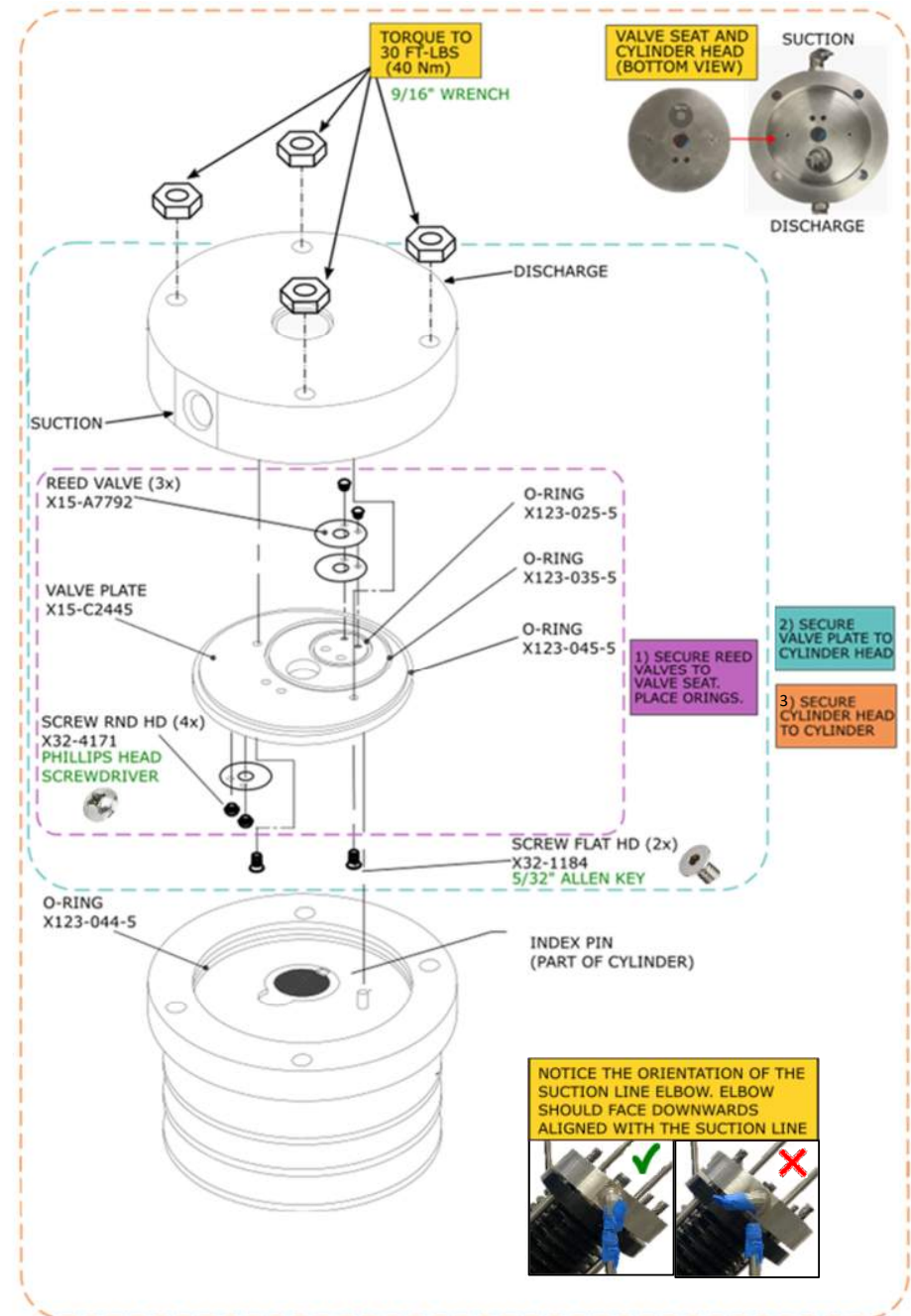
This guide is an independent reference document. It is not endorsed, published, or developed by the booster compressor manufacturer. Always consult the official service manual for complete instructions, safety guidelines, and detailed maintenance procedures.

# RIX 2V3B QUICK SERVICE REFERENCE GUIDE

## 1<sup>st</sup> stage Valve Assembly

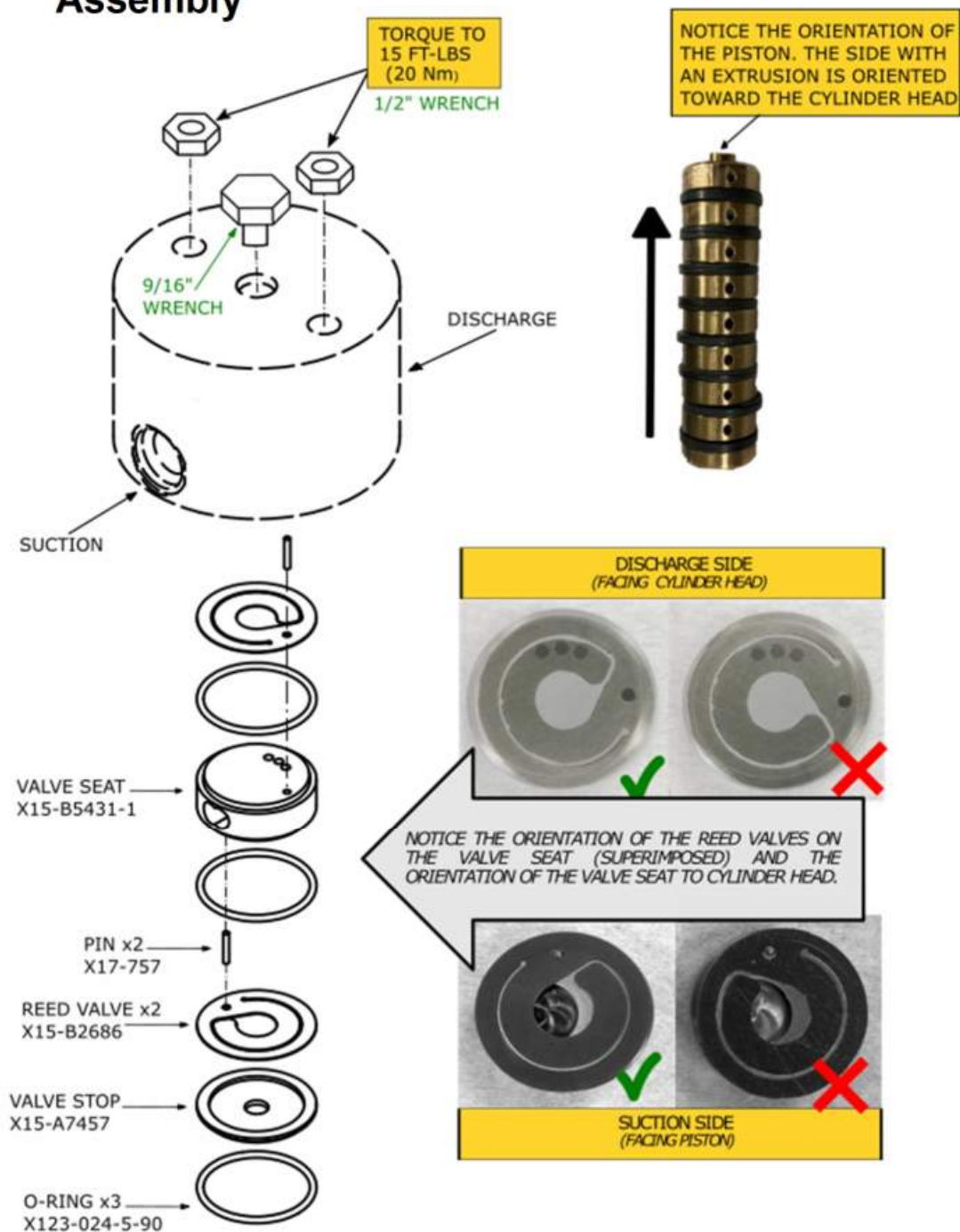


## 2<sup>nd</sup> stage Valve Assembly



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## 3rd stage Valve Assembly



### Normal Operating Pressure Ranges

|                         |                   |
|-------------------------|-------------------|
| Suction                 | 30-40 psig        |
| 1st Stage               | 190-250 psig      |
| 2nd Stage               | 700-820 psig      |
| 3rd Stage               | up to 2500 psig   |
| Back Pressure Regulator | approx. 1500 psig |

### Summary of needed parts

(4) Wrenches: 1/2", 9/16", 11/16", 3/4"

(2) Allen keys: 5/32", 5/64"

(2) Screw drivers: Flat head, Phillips

(2) Sockets: 1/2", 9/16"

Pick

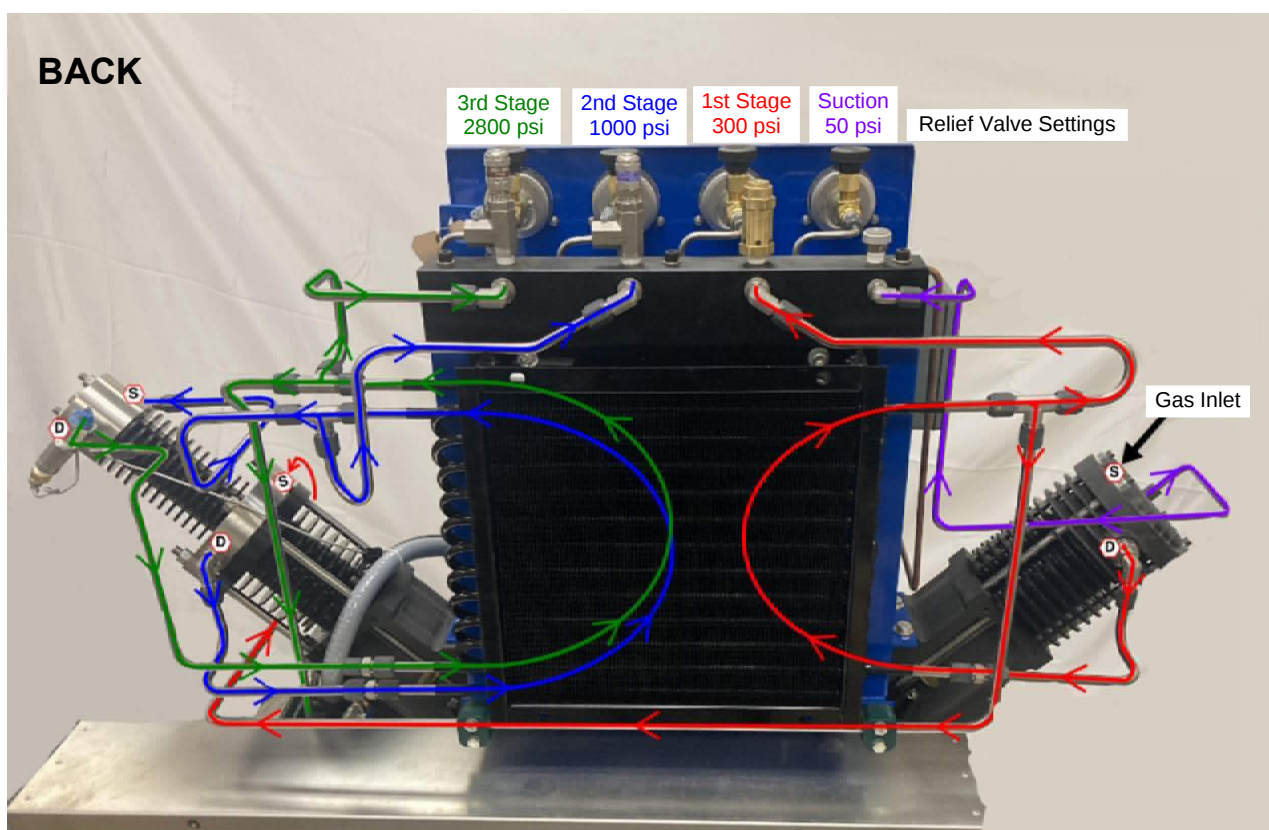
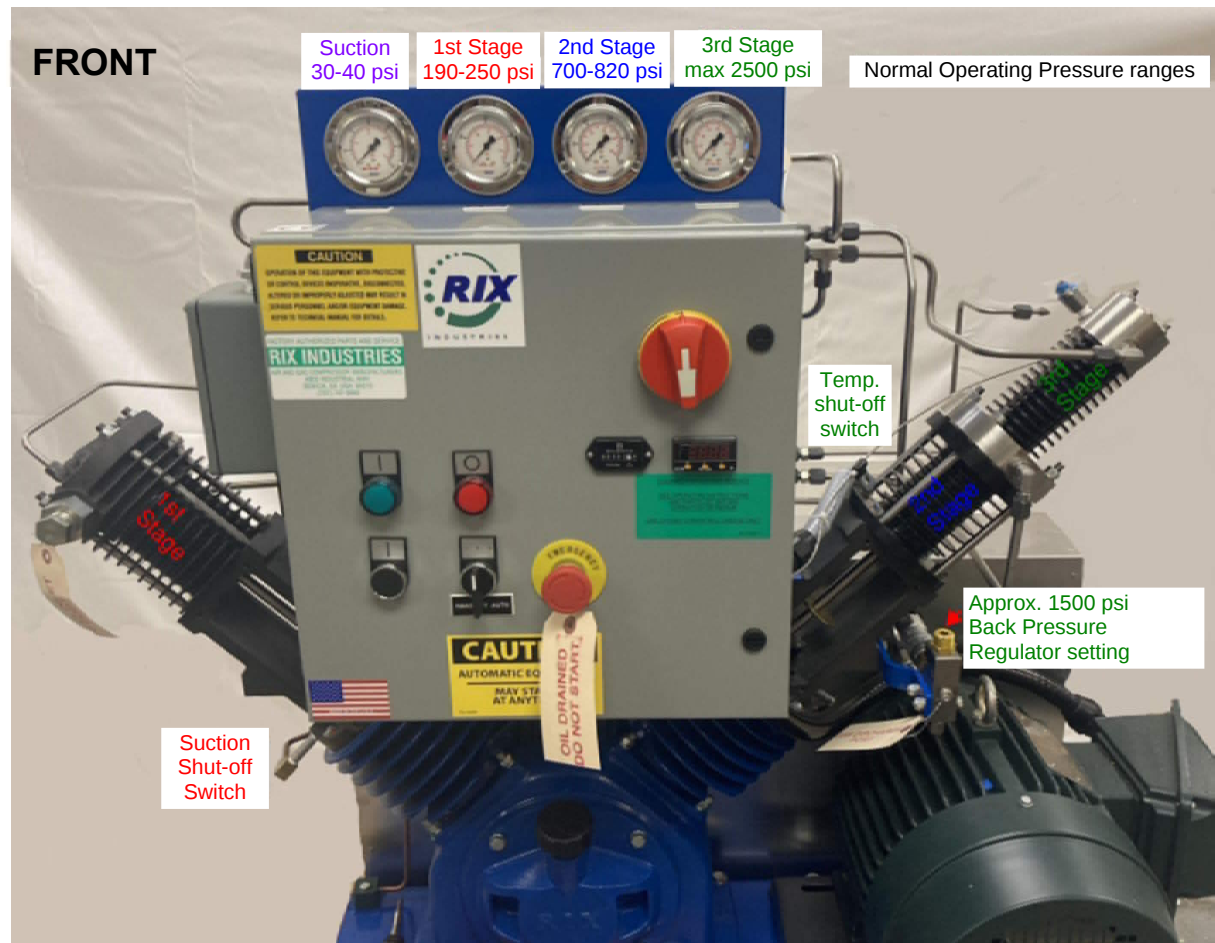
Tape, gloves, alcohol

Piston rod tool, sleeve tool, torque wrench

### Relief Valve Settings

| Stage (Symbol)  | Set Point |
|-----------------|-----------|
| Suction (RV1)   | 50 psig   |
| 1st Stage (RV1) | 300 psig  |
| 2nd Stage (RV2) | 1000 psig |
| 3rd Stage (RV3) | 2800 psig |

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## O-RING SIZING GUIDE

