

Optimal Pipe Size:
Up to a 3" Pipe or
3-3/4" Max OD

Product Data Sheet

3-R-2 and 3-R-4

1. **Product Name:** 3-R-2 and 3-R-4 Pillow Block Support. **NOTE:** The 3-R-2 and 3-R-4 Pillow Block supports are designed to carry up to a 3 inch pipe with a maximum outside diameter of 3-3/4 inches.
2. **Manufacturer:** MIRO INDUSTRIES, INC. Phone: (800) 768-6978
844 South 430 West, Suite 100, Fax: (800) 440-7958
Heber City, Utah 84032
3. **Product Description:** A "roller-bearing" pipe support used to support roof-mounted gas pipes, electrical conduit, solar piping, or other mechanical piping. The unique design absorbs thermal expansion and contraction of pipes, thus preventing damage to the roof membrane. Pipes rest on a polycarbonate resin roller and a polycarbonate axle situated in a polycarbonate resin base. The maximum pipe outside diameter (including insulation) is 3-3/4 inches.
4. **Product Performance:** The polycarbonate roller serves to keep the pipestand system directly beneath the pipe without binding. It also allows for some lateral expansion of the pipe system. All base edges are gently rounded to prevent gouging the roof membrane.
5. **Compatibility:** Pillow Block Pipestands are recommended and are compatible to use with all current deck types and with all commonly used built-up and single-ply roofing membranes where roof-mounted pipes occur.
6. **Load Weight:** Maximum load weight may not exceed 118 pounds per pipestand.
7. **Composition and Materials:** A one-piece roof deck base, a 9/16 inch diameter axle and a 3 inch roller support composed of rigid polycarbonate resin with carbon black added for UV-resistance and protection.
8. **Size:** The Pillow Block Pipestand Model 3-R-2 and 3-R-4 have a deck base of 7-3/4 inches square, the top of the cradle is 4 inches high, and the maximum width of the interior of the cradle is 3.875 inches. Components supported on the 3-R-2 pipestand will have a clearance of 2-1/8 inches. Components supported on the 3-R-4 pipestand will have a clearance of 4 inches. Model 3-R spacers can be stacked 1 to 3 high to give greater height to the pipe or conduit. Each 3-R spacer increases the clearance of the pipe by 2 inches.
9. **Installation:** To install the pillow block pipestand, (1) center the pipestand beneath the pipe so that the pipe will rest centered directly on the roller. (2) Set the pipe in the pipestand without dropping or causing any undue impact. (3) An additional sheet of roofing material, or a MIRO Support Pad should be installed beneath the pipestand. For built up roofs, clear all loose aggregate from an area 2 inches outside each base footprint and then follow the installation directions described above. Care should be taken to install each pipestand, so it supports a proportional and equal amount of weight with all other pipestands.

In addition, the pipe may be secured to the pipestand by using a MIRO Pipe Guide and two #8 stainless-steel screws in the guide holes at the top of each pipestand. **Note:** the pipe guide should not be rigidly-attached to the pipe in the pipestand, thus allowing the supported pipe to expand and contract without binding.
10. **Spacing:** Manufacturer's recommended spacing is not to exceed 7 foot centers depending upon the load. Make certain each pipestand is properly elevated and adjusted to ensure even-load distribution to all pipestands. Support spacing is not to exceed the maximum spacing required in the pipe specifications, where applicable.
11. **Availability:** Pillow Block Pipestands are marketed throughout the United States through representatives and distributors.
12. **Maintenance:** Normal maintenance is not required. Semi-annual inspection is required to check pipestand position and set pipe alignment, check proper weight distribution, and to correct improper installation that may cause pipestand damage or failures.
13. **Technical Services:** Please call MIRO INDUSTRIES, INC: (800) 768-6978 or visit our website www.miroind.com for technical information and for graphic and CAD drawing downloads.