



IMI NORGREN®

NJ Series Cylindrical Venturi Vacuum Pump

Installation & Maintenance Instructions

IMI Precision
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Installation & Maintenance Instructions
NJ Series Cylindrical Venturi Vacuum

Installation Instructions

1. Mount pump to your mounting hardware, end-of-arm-tool, extrusion, etc.
2. Attach air line to air supply port. Attach vacuum line to the vacuum port if not directly attaching a vacuum cup to the port. See chart for minimum recommended sizes (tubing outer diameters are listed).
3. Turn on compressed air and regulate to specified pressure (80 PSI standard, models with “-60” designation to 60 PSI – set regulator while pump is operating). The pump will generate vacuum immediately.

Additional Information

Caution:

- 1: Fittings or connections should only be threaded 3 to 4 turns - do not force.
- 2: Over-tightening fittings or connections will disturb the spatial relationship of the inner nozzle and diffuser assembly – diminishing performance or worst case, render the pump inoperable.

| NJ Series Model | Air Supply Port Threads | Recommended Air Supply Line (outer diameter) | Vacuum Port Threads | Recommended Vacuum Line (outer diameter) | Exhaust Port Threads |
|-----------------------------|-------------------------|--|---------------------|--|----------------------|
| NJS-40UM | 10-32 UNC Female | ¼" [6 mm] | 10-32 UNC Female | ¼" [6 mm] | 10-32 UNC Female |
| NJ(F,D,S)-(60,90)M | ⅛ NPT | ¼" [6 mm] | ⅛ NPT | ¼" [6 mm] | ¼ NPT |
| NJ(F,D,S)-(100,150)M | ⅛ NPT | ⅜" [10 mm] | ⅛ NPT | ⅜" [10 mm] | ¼ NPT |
| NJ(F,D,S)-(100,150,200,250) | ¼ NPT | ½" [12 mm] | ⅜ NPT | ½" [12 mm] | ⅜ NPT |
| NJ(F,D,S)-300 | ⅜ NPT | ½" [12 mm] | ⅜ NPT | ¾" [18 mm] | ⅜ NPT |
| NJ(F,D,S)-350 | ½ NPT | ½" [12 mm] | ½ NPT | ¾" [18 mm] | ½ NPT |

The recommended tubing sizes are based on polyethylene or polyurethane tubing with 0.062" [1/16", 1.5 mm] wall thickness
 All NPT threads are tapered Note: IMI Norgren discourages the use of quick disconnect fittings on all connections

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Warning

These products are intended for use in industrial systems only. Do not use these products where pressures and temperatures can exceed those listed under Specifications.

Before using these products with fluids other than those specified, for nonindustrial applications, life-support systems, or other applications not within published specifications, consult Norgren.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes. The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure modes.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided. System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products. System designers should also provide for all OSHA requirements including Title 29 CFR 1910.147 Lockout/Tagout.

It should be recognized that warnings are valid for any product, regardless of manufacturer, and are not restricted to products manufactured by Norgren. Norgren's reputation for product quality and performance is well established. We feel we have the additional obligation to provide information or warnings to customers to assist them in applying our products in a reasonable and safe manner.

Warranty

Items sold by Norgren are warranted to be free from defects in materials and workmanship for a period of two year from the date of manufacture, provided said items are used according to Norgren's recommended usages. Norgren's liability is limited to the repair of, refund of purchase price paid for, or replacement in kind of, at Norgren's sole option, any items proved defective, provided the allegedly defective items are returned to Norgren prepaid. The warranties expressed above are in lieu of and exclusive of all other warranties. There are no other warranties, expressed or implied, except as stated herein.

Our policy is one of continued research and development. We therefore reserve the right to amend, without notice, the specifications given in this document.

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