



3-Way Pilot Valve

INTRODUCTION

Nexen's 3-Way Pilot Valve is a directly operated, solenoid controlled valve with 3/64 inch inlet and exhaust orifice.

Normally Open Valves are suitable for operating pressures up to 125 psi, and Normally Closed Valves are suitable for operating pressures up to 150 psi.

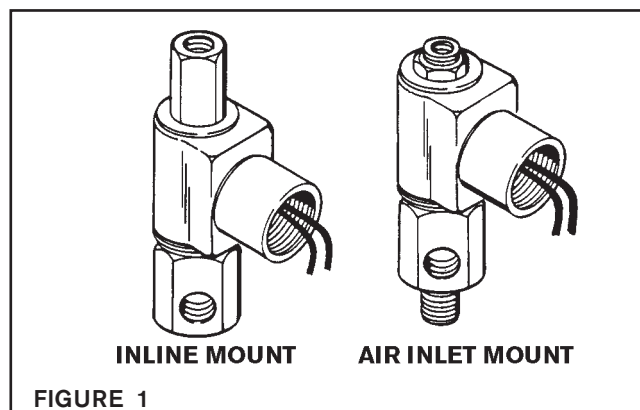
The conduit style housing is provided with 1/2" NPT threads for electrical connection and can be rotated in any direction to facilitate wiring.

INSTALLATION

Nexen's 3-Way Valves are available in two mounting configurations: a side outlet port, inline mount, and a bottom outlet port, air inlet mount.

The base of the inline mount valve has two #10-32 tapped holes for panel mounting.

The air inlet mount valve, with a 1/8 or 1/4 NPT male bottom outlet port is installed directly into the clutch or brake air inlet.

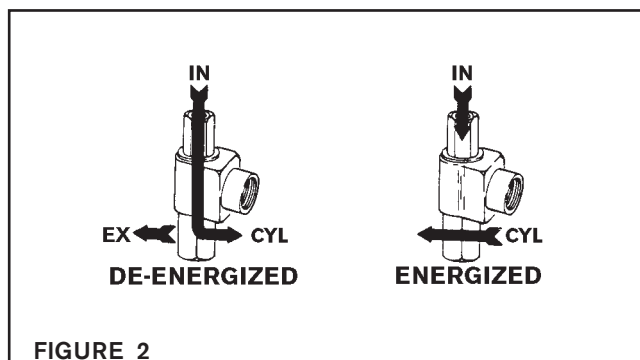


AIR CONNECTIONS

NORMALLY OPEN 3-WAY VALVE

Inline Mount (Refer to Figure 2.)

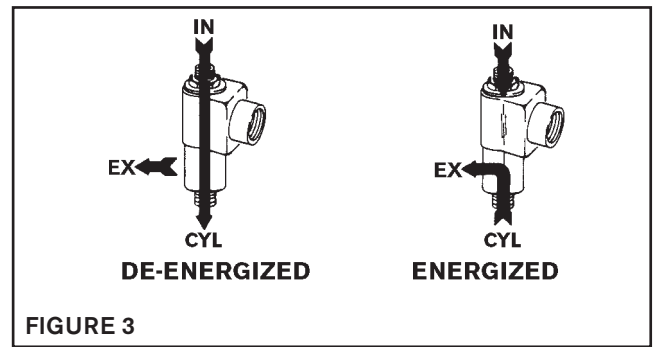
1. Connect inlet air pressure line to inlet port (marked "IN") on top of valve.
2. Route air line from outlet port (marked "CYL") to clutch or brake.



Air Inlet Mount (Refer to Figure 3.)

1. Connect inlet air pressure line to inlet port (marked "IN") on top of valve.
2. Install the 1/8 or 1/4 NPT male bottom outlet port in clutch or brake air inlet.

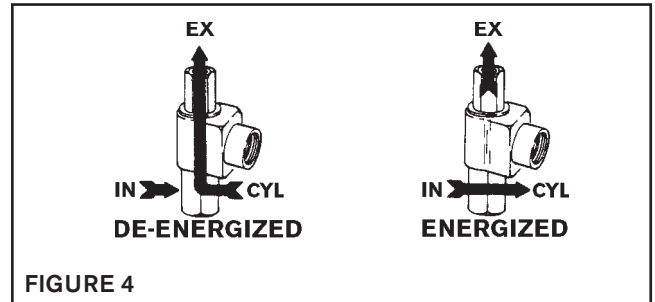
NOTE: When solenoid is de-energized, air flows from the inlet port directly to clutch or brake. When solenoid is energized, air is free to flow from clutch or brake to exhaust.



NORMALLY CLOSED 3-WAY VALVE

Inline Mount (Refer to Figure 4.)

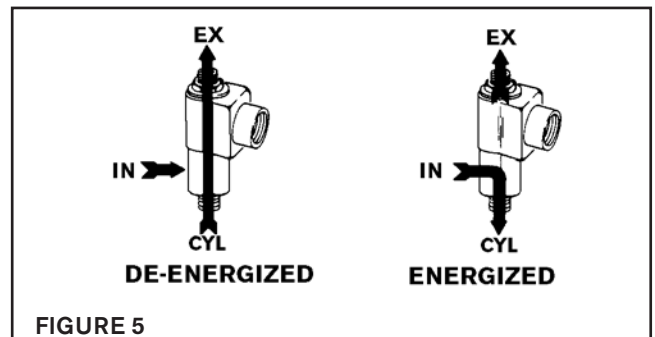
1. Connect inlet air pressure to inlet port (marked "IN") on top of valve.
2. Route air line from outlet port (marked "CYL") to clutch or brake.



Air Inlet Mount (Refer to Figure 5.)

1. Connect inlet air pressure line to inlet port (marked "IN") on top of valve.
2. Install the 1/8 or 1/4 NPT male bottom outlet port in clutch or brake air inlet.

NOTE: When solenoid is energized, air flows from the inlet port directly to clutch or brake. When solenoid is de-energized, air is free to flow from clutch or brake to exhaust.



MAINTENANCE

All pneumatically activated valves require clean pressure regulated air with the correct amount of lubrication for long trouble-free service. Refer to Nexen's Pneumatic Clutch/Brake Catalog (ACP 7/86) for information on filters, regulators, and lubricators.

If a valve malfunctions, check the following:

A. **Excessive air pressure** - pressures greater than psi rating on valve's legend plate will cause valve to leak.

B. **Dirt in valve** - check filters.

C. **Improper voltage** - voltage specifications are stamped on valve's legend plate.

D. **Faulty or burned-out coil.**

PARTS REPLACEMENT

There are no replacement parts in Nexen 3-Way Pilot Valves. When ordering replacement 3-Way Pilot Valves, please give voltage of solenoid and product number of valve.

Purchase replacement 3-Way Pilot Valves through your local Nexen Distributor.

WARRANTY

Warranties

Nexen warrants that the Products will (a) be free from any defects in material or workmanship for a period of 12 months from the date of shipment, and (b) will meet and perform in accordance with the specifications in any engineering drawing specifically for the Product that is in Nexen's current product catalogue, or that is accessible at the Nexen website, or that is attached to this Quotation and that specifically refers to this Quotation by its number, subject in all cases to any limitations and exclusions set out in the drawing. NEXEN MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AND ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. This warranty applies only if: (a) the Product has been installed, used and maintained in accordance with any applicable Nexen installation or maintenance manual for the Product; (b) the alleged defect is not attributable to normal wear and tear; (c) the Product has not been altered, misused or used for purposes other than those for which it was intended; and (d) Buyer has given written notice of the alleged defect to Nexen, and delivered the allegedly defective Product to Nexen, within one year of the date of shipment.

Exclusive Remedy

The exclusive remedy for the Buyer for any breach of any warranties provided in connection with this agreement will be, at the election of Nexen: (a) repair or replacement with new, serviceably used, or reconditioned parts or products; or (b) issuance of credit in the amount of the purchase price paid to Nexen by the Buyer for the Products.

Agent's Authority

Buyer agrees that no agent, employee or representative of Nexen has authority to bind Nexen to any affirmation, representation, or warranty concerning the Products other than those warranties expressly set forth herein.

Limitation on Nexen's Liability

TO THE EXTENT PERMITTED BY LAW NEXEN SHALL HAVE NO LIABILITY TO BUYER OR ANY OTHER PERSON FOR INCIDENTAL DAMAGES, SPECIAL DAMAGES, CONSEQUENTIAL DAMAGES OR OTHER DAMAGES OF ANY KIND OR NATURE WHATSOEVER, WHETHER ARISING OUT OF BREACH OF WARRANTY OR OTHER BREACH OF CONTRACT, NEGLIGENCE OR OTHER TORT, OR OTHERWISE, EVEN IF NEXEN SHALL HAVE BEEN ADVISED OF THE POSSIBILITY OR LIKELIHOOD OF SUCH POTENTIAL LOSS OR DAMAGE. For all of the purposes hereof, the term "consequential damages" shall include lost profits, penalties, delay damages, liquidated damages or other damages and liabilities which Buyer shall be obligated to pay or which Buyer may incur based upon, related to or arising out of its contracts with its customers or other third parties. In no event shall Nexen be liable for any amount of damages in excess of amounts paid by Buyer for Products or services as to which a breach of contract has been determined to exist. The parties expressly agree that the price for the Products and the services was determined in consideration of the limitation on damages set forth herein and such limitation has been specifically bargained for and constitutes an agreed allocation of risk which shall survive the determination of any court of competent jurisdiction that any remedy herein fails of its essential purpose.

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Buyer shall inspect all shipments of Products upon arrival and shall notify Nexen in writing, of any shortages or other failures to conform to these terms and conditions which are reasonably discoverable upon arrival without opening any carton or box in which the Products are contained. Such notice shall be sent within 14 days following arrival. All notifications shall be accompanied by packing slips, inspection reports and other documents necessary to support Buyer's claims. In addition to the foregoing obligations, in the event that Buyer receives Products that Buyer did not order, Buyer shall return the erroneously shipped Products to Nexen within thirty (30) days of the date of the invoice for such Products; Nexen will pay reasonable freight charges for the timely return of the erroneously shipped Products, and issue a credit to Buyer for the returned Products at the price Buyer paid for them, including any shipping expenses that Nexen charged Buyer. All shortages, overages and nonconformities not reported to Nexen as required by this section will be deemed waived.

Limitation on Actions

No action, regardless of form, arising out of any transaction to which these terms and conditions are applicable may be brought by the Buyer more than one year after the cause of action has accrued.

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