

NORGREN ISO VDMA
ACTUATOR RANGE

YOU CAN SEE
OUR THINKING

ENGINEERING ADVANTAGE

HIGH PERFORMANCE ACTUATORS

Long Life  VDMA ISO6431
24562 RELIABLE

16 BAR RATED 28 Technical Variants [ROBUST] low friction

Extensive mounting selection ISO 15552 Up to 3 metre stroke

[11 bore sizes] +80°C AND +150°C  NORGREN WARRANTY

Customised options
SERVICABLE
READILY AVAILABLE

USE IN CHALLENGING ENVIRONMENTS →



CREATING ADVANTAGE WITH PEOPLE, PRODUCTS, INNOVATION AND SERVICE

A WORLD LEADER IN MOTION AND FLUID CONTROL TECHNOLOGIES, NORGRN WORKS CLOSELY WITH CUSTOMERS TO GAIN A DEEPER UNDERSTANDING OF THEIR ENGINEERING NEEDS, AND THEN CONNECTS ITS PEOPLE, PRODUCTS AND EXPERTISE TO GIVE THEIR EQUIPMENT AND THEIR BUSINESS A CLEAR ADVANTAGE. WE CALL THIS ENGINEERING ADVANTAGE.



WITH A SALES AND SERVICE NETWORK IN 75 COUNTRIES – AS WELL AS MANUFACTURING CAPABILITY IN THE USA, GERMANY, CHINA, UK, SWITZERLAND, CZECH REPUBLIC, MEXICO AND BRAZIL – WE HAVE GENUINE GLOBAL CAPABILITY.

We also think local and niche: on focusing our resources on delivering a specific product, solution or service to meet our customers' needs.

As a responsible business, we're committed to working practices which contribute positively to the environments in which we work. Our products are setting new standards for efficiency, helping customers reduce air usage and energy costs while improving overall performance. We offer:

- **INNOVATION & TECHNICAL EXCELLENCE** through four global technical centres and the experience of specialist engineering teams. We have a portfolio of patented solutions, and are always developing new and cost-effective technologies
- **HIGH PERFORMANCE PRODUCTS** covering pneumatic actuators, air preparation, fittings and valves. We can supply these either singly to meet MRO needs, or combined in powerful customised solutions
- **EXCEPTIONAL LOCAL SERVICE** delivered through Key Account Management teams and sector specialists committed to understanding and meeting our customers' engineering challenges, wherever they are

WHY NORGREN ISO/VDMA ACTUATORS?

- **RELIABILITY** – our ISO/VDMA actuators have been proven over many years and in the most challenging environments. To demonstrate our confidence in our products, they are backed by Norgren's warranty (up to 2 years).
- **CHOICE** – our range comes in bore sizes of Ø32 to 320mm and in strokes of up to 3 metres. This gives more scope for using the products in the widest range of applications.
- **OPTIONS** – we are able to offer up to 28 variants including non-rotating, four position and alternative seal materials. These options allow customization to solve the most difficult actuation problems.
- **ACCESSORIES** – includes reed and solid state switches, one of the widest range of mountings on the market and a choice of functional fittings. Solutions can be configured to give additional functionality and efficient operation.
- **AVAILABILITY** – standard cylinders and mountings are available for immediate dispatch with many of the non-standard options manufactured within 24 hours. Essential for breakdowns or where customers require short lead times to meet their own delivery requirements.

In stock or made to order in 24 hours



OPTIONS

ISO VDMA ACTUATOR

- COMPREHENSIVE RANGE FOR THE UTMOST VERSATILITY
- HIGH PERFORMANCE, STABILITY AND RELIABILITY IDEAL FOR THE DEMANDS OF TODAY
- CYLINDERS AND MOUNTINGS CONFORM TO ISO 15552

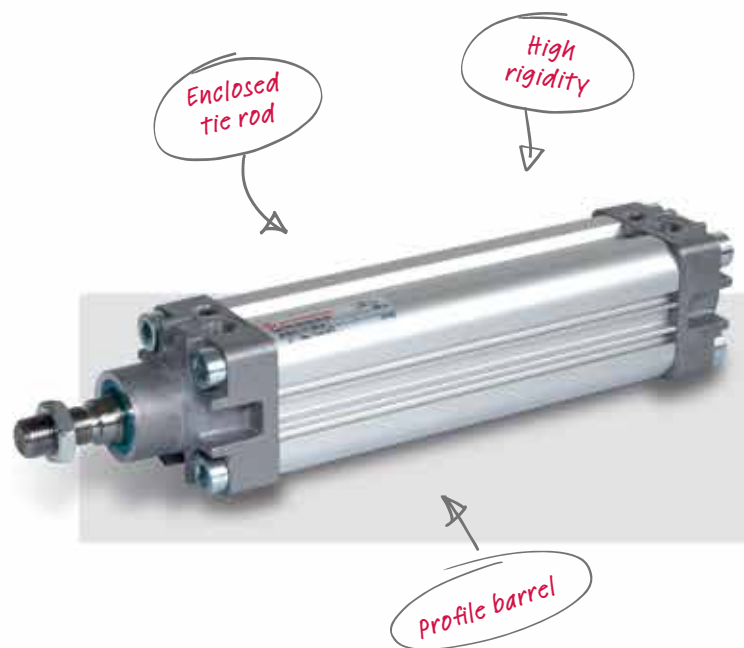
- ALL SIZES AVAILABLE WITH OR WITHOUT MAGNETIC PISTON
- POLYURETHANE SEALS ENSURE EFFICIENT LOW FRICTION OPERATION AND LONG LIFE

PROFILE

PRA/182000

PRA/182000/M

- Ø32 - 125MM
- Profile barrel with concealed tie rod
- Switches can be flush mounted
- Clean appearance

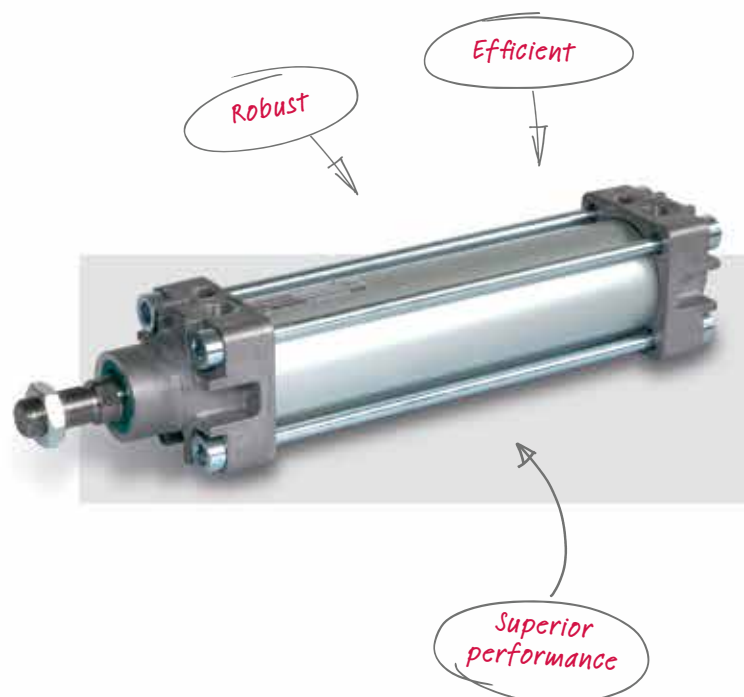


TIE ROD

RA/8000

RA/8000/M

- Ø32 - 320MM
- Robust construction
- Wide choice of bore sizes
- Suitable for more aggressive applications



VARIANTS

ISO VDMA ACTUATORS

ISO VDMA ACTUATORS OFFER COMPLETE FLEXIBILITY FOR MANY INDUSTRIAL APPLICATIONS. WE ARE ABLE TO OFFER UP TO 28 DIFFERENT VARIANTS, INCLUDING:

<p>Non-Rotating</p> 	<p>A non-rotating piston rod ensures external load is guided. Non magnetic piston style N1, magnetic piston style N2.</p>
<p>Bellows</p> 	<p>Bellows protect the piston rod from aggressive materials and environments. Non magnetic piston style G, magnetic piston style MG.</p>
<p>Double Ended</p> 	<p>Two rodded cylinder allows movement of two loads in one stroke. Non magnetic piston style J, magnetic piston style JM.</p>
<p>Four-Position</p> 	<p>Back to back mounted cylinders provide multiple positioning. Non magnetic piston style IT , magnetic piston style MT.</p>
<p>Locking Unit</p> 	<p>A passive locking unit will retain the piston rod in position until released by an air signal. Non magnetic piston style L2, magnetic piston style L4.</p>
<p>Guide Blocks</p> 	<p>Guide blocks allow higher external loads to be supported and prevent excessive forces being applied to the piston rod. Guide blocks with sintered bronze bearings, style 51.</p>
<p>Guide Blocks</p> 	<p>Guide blocks allow external loads to be supported and moved at higher speeds and greater accuracy. Guide blocks with roller bearings, style 61.</p>

For full range of options and detailed part numbering refer to technical data sheets: N/en 1.5.135 and N/en 1.5.125

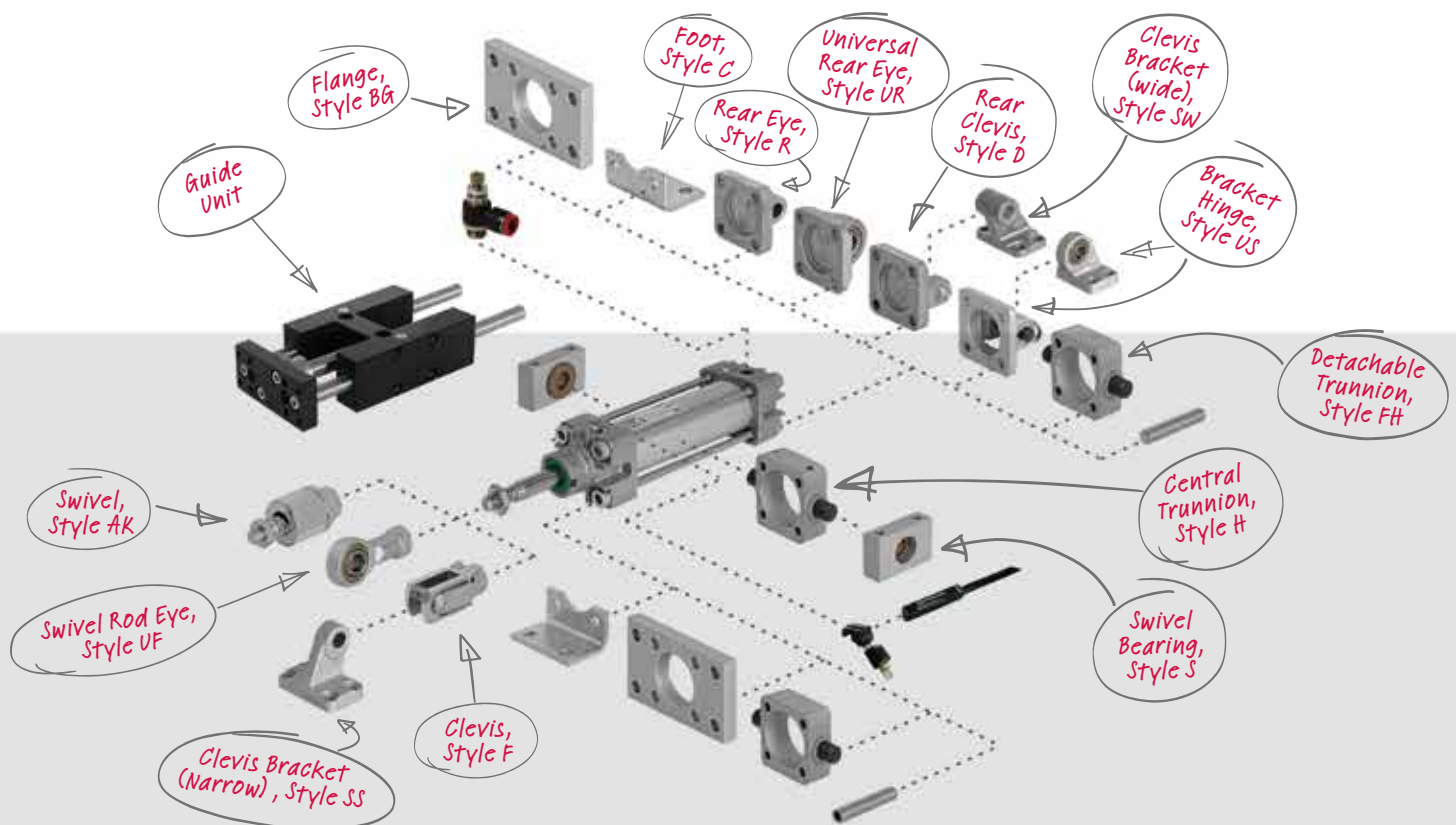
ACCESSORIES ISO VDMA ACTUATOR

NORGREN'S ISO/VDMA ACTUATORS ARE AVAILABLE FOR IMMEDIATE DESPATCH WITH ONE OF THE LARGEST RANGES OF ACCESSORIES ON THE MARKET, INCLUDING MOUNTINGS, SWITCHES AND FUNCTIONAL FITTINGS.

MOUNTINGS

A comprehensive range of mountings suitable for all actuator types.

- Conform to ISO 15552
- Provide options for front end cover, rear end cover and piston rod mounting
- Fixed and adjustable trunnion mounting options for tie rod actuator
- Adjustable trunnion mounting only for profile actuator



ACCESSORIES

ISO VDMA ACTUATOR

SWITCHES

Suitable for all cylinder ranges with magnetic piston.
Switches can be mounted flush on the profile version, or with the delivered special adapter on the tie rod version.

MAGNETICALLY OPERATED REED SWITCHES

→ LED indicator on LSU models

SOLID STATE SWITCHES

- LED indicator as standard
- Reliable switching with a very fast response time
- Particularly suited for use in high levels of vibration

Note - For full range of options and detailed part numbering refer to technical data sheets - N/en 4.3.005.01 and N/en 4.3.007.01



FUNCTIONAL FITTINGS

Suitable for use on all actuator ranges. Function fittings can be used to achieve optimum actuator control.

- **Pneufit C fittings** – a range of composite push-in fittings for nylon and polyurethane tubing incorporating a releasable stainless steel grab ring for quick tube removal and nickel plated brass components for corrosion resistance and extended life.
- **Flow regulators** – a choice of adjustable general purpose and precision flow regulators can be directly connected to the actuator and provide speed control over the entire stroke length.
- **Functional fittings** – part of the Pneufit family, the range includes pilot operated check valves, which allow flow in one direction only when the pilot signal is removed; pressure reducing fittings, to provide secondary reduced pressure and prevent pressure build-up; and pneumatic sensor fittings, which produce an air signal when end of travel is reached.



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