









FLU-TECH CO.,LTD | บริษัท ฟลูเทค จำกัด

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Automotive Catalogue The ultimate clamping technology

Innovation begins with Research and Development and extends to industrial processes and business activities, with the ultimate aim of total customer satisfaction.



Pneumax

Smart Technologies and Human Competence

Founded in 1976, PNEUMAX S.p.A. is today one of the leading, international manufacturers of components and systems for industrial automation. It is at the fore front of a group of 23 companies, with over 730 employees worldwide.

Ongoing investment in research and development has allowed Pneumax to continually expand its range of standard products and customised solutions, adding to the well-established pneumatic technology, a range of electric drive actuators and fluid control components.



Pneumatic Technology



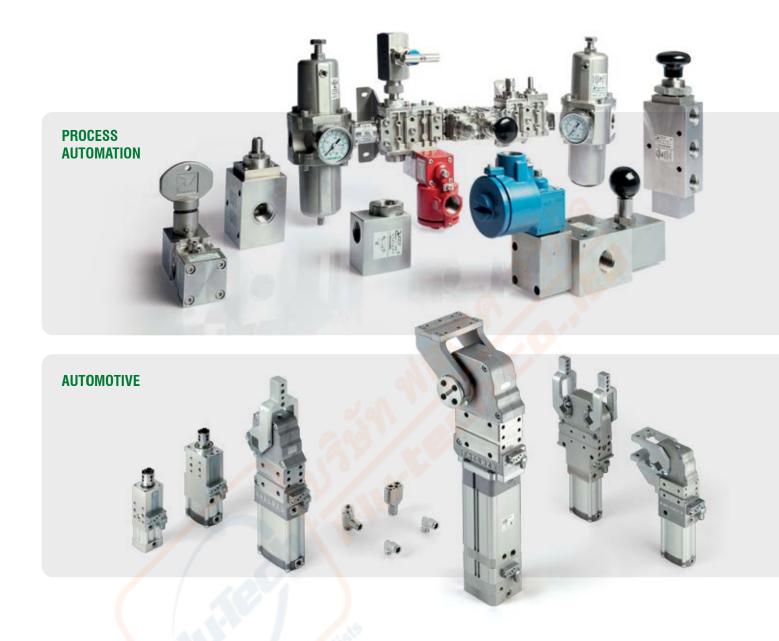
Electric **Actuation**



Fluid Control



INDUSTRIAL AUTOMATION



The ability to provide various technologies and solutions for our clients' applications is the main objective of our company, making us the ideal strategic partner.

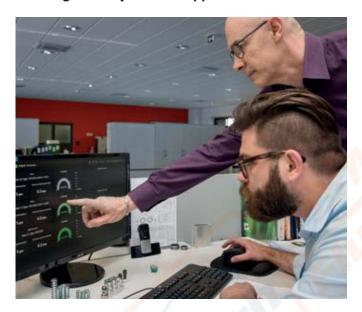
What defines us is "Pneumax Business Attitude", born out of the capacity to combine industry sectors, technology and our application skills via client collaboration with our business sector and product sector specialists. This represents the main distinguishing factor of what Pneumax offers.



The Automotive division

Product development

The Automotive division of Pneumax designs and manufactures a complete range of products dedicated to the production lines of the automotive field, focusing on Body in White applications.



Pneumax offers a comprehensive range of clamping units, pivot units, pin packages as well as grippers and complete multi-axis positioning systems.

Developed by a team of specialized technicians, the product is designed to ensure maximum reliability, precision and repeatability in compliance with the latest international mounting standards.

Particular attention has been paid to energy efficiency which through patented designs provides the largest energy saving solutions available in this market.

Every stage of manufacturing and product testing is carried within our specially equipped departments at our headquarters in Lurano (BG).

The worldwide presence of Pneumax ensures optimized and coordinated project management: the highest level of service is provided to all of our international customers.

Market requirement evaluation and product specs definition by product management. The project team analyzes the technical feasibility and sets a general timeline.



Electronic components are developed and manufactured **in-house** by Pneumax to be integrated in any system or as interface to any protocol.



CONCEPT

PROTOTYPING

ELECTRONICS INTEGRATION

FMEA

After a structural mechanics simulation analysis, the R&D team prepares a CAD model which is used with a 3 axis printing-moulding machine to manufacture the first prototypal batches.



The first close-to-series samples are machined, using the **latest generation machinery**. The first **FMEA** is prepared.





Life test and approval.
The products are subjected to functional, performance, temperature tests for millions of cycles.



ENCINEEDING

The industrialization team together with the technical department develop any specific equipment and tool required. Suppliers' evaluation is accomplished.



EVALUATION AND INSPECTION



PRODUCT INDUSTRIALIZATION

PILOT SERIES RELEASE
AND PRODUCT AUDIT



The engineering department evaluates and adopts the most suitable manufacturing technology and assembly procedure to implement, using **3D simulation programs**.



Verification and validation that the product meets the requirements.

Accessories

Sensor

M12 or M8 connector; PNP or NPN



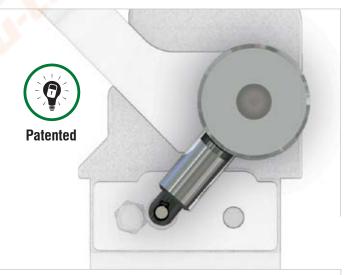






Auto-retaining device

for opening position An extremely light device which maintains the clamping arm in its defined opening position in case of air loss. The AR-series has been designed for **maximum load capacity** and due to its compact dimensions, it can be used on the same side of the manual operation handle.



Shims and spacers







AR-Series



Optional: auto-retaining device for opening position

An extremely light device which maintains the clamping arm in its defined opening position in case of air loss. The AR-series has been designed for maximum load capacity and due to its compact dimensions, it can be used on the same side of the manual operation handle. It locks the manual lever and guarantees the working position of the pin package with no air. It can easily be assembled on the right, as well as on the left side of the unit.





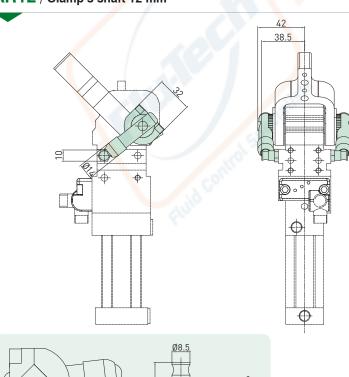
Ordering string

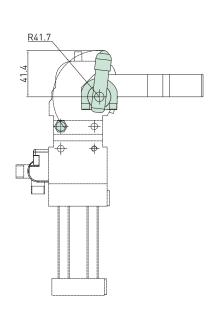
AR-Series

AR 12

PRODUCT AR = Auto-retaining device SIZE 12 = Clamp's shaft 12 mm 19N = Clamp's shaft 19 mm NAAMS Clamp's shaft 16 mm 16 22N = Clamp's shaft 22 mm NAAMS 19 = Clamp's shaft 19 mm **30N** = Clamp's shaft 30 mm NAAMS 22 Clamp's shaft 22 mm **09R** = for RD250 pin packages = Clamp's shaft 30 mm

AR12 / Clamp's shaft 12 mm





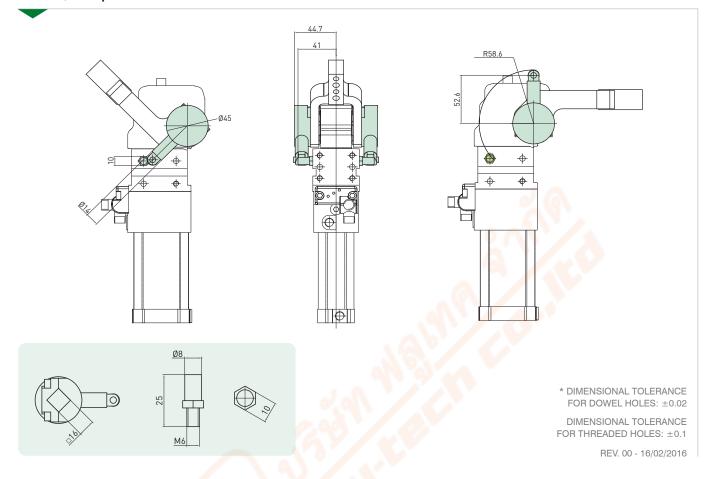
* DIMENSIONAL TOLERANCE FOR DOWEL HOLES: ±0.02

DIMENSIONAL TOLERANCE FOR THREADED HOLES: ±0.1

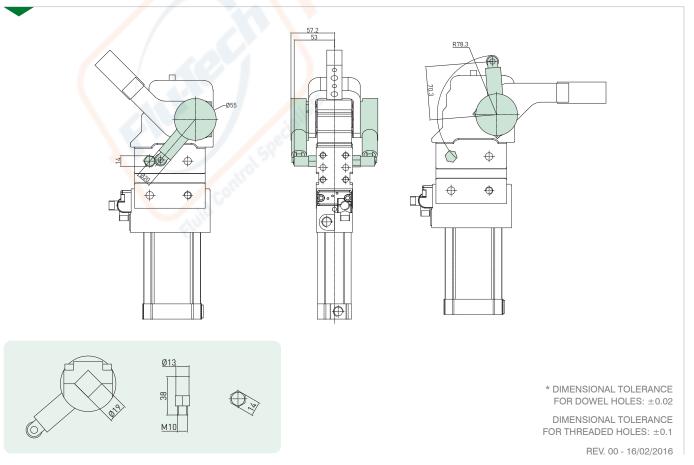
REV. 00 - 17/02/2016





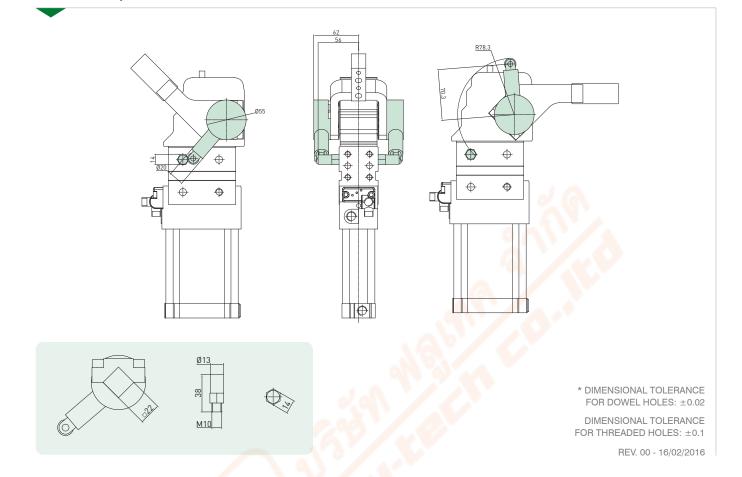


AR19 / Clamp's shaft 19 mm

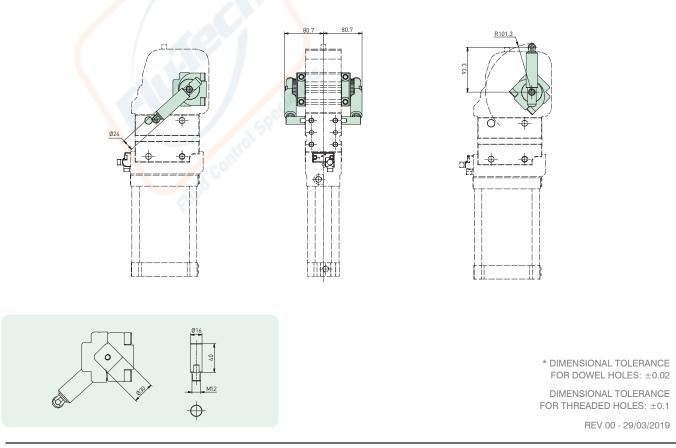


ACCESSORIES

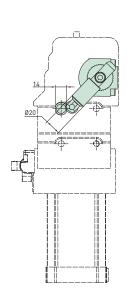
AR22 / Clamp's shaft 22 mm

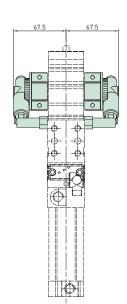


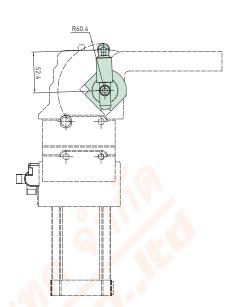
AR30 / Clamp's shaft 30 mm

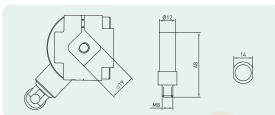


AR19N







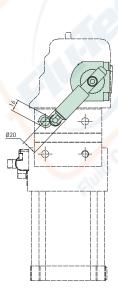


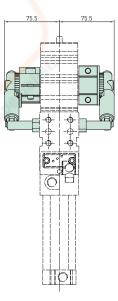
* DIMENSIONAL TOLERANCE FOR DOWEL HOLES: ±0.02

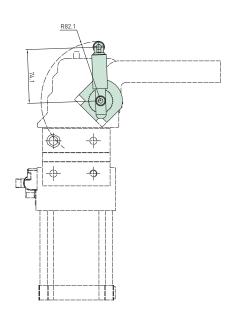
DIMENSIONAL TOLERANCE FOR THREADED HOLES: ±0.1

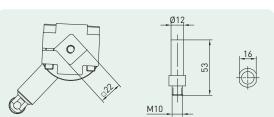
REV 00 - 29/03/2019

AR22N / Clamp's shaft 22 mm - NAAMS std







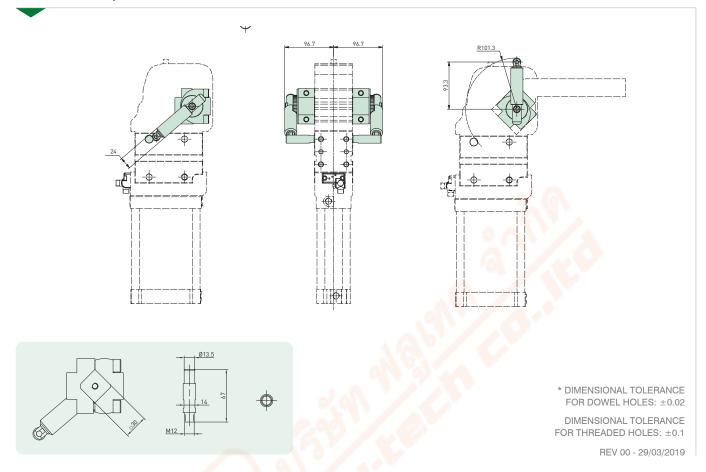


* DIMENSIONAL TOLERANCE FOR DOWEL HOLES: ±0.02

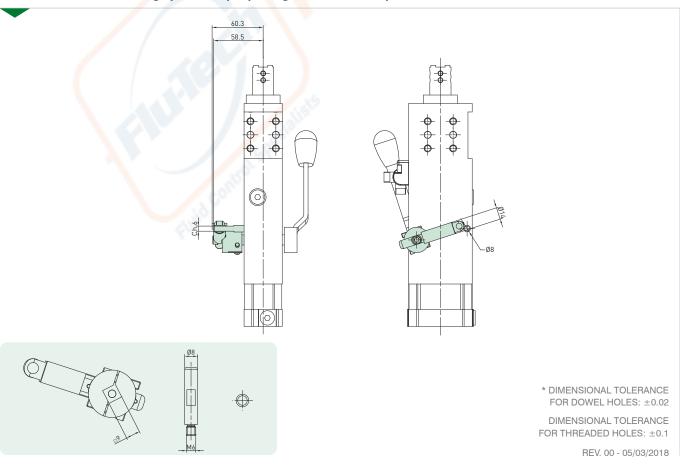
DIMENSIONAL TOLERANCE FOR THREADED HOLES: ±0.1

REV 00 - 29/03/2019

AR30N / Clamp's shaft 30 mm - NAAMS Std



AR09RD / Auto-retaining system for pin packages with manual operation



QIG AR EN Rev.00 04.2017

Auto-retaining device

Quick installation guide



Any maintenance operation may only be carried out by qualified and authorized personnel. For any reason, do not reach into the pivoting range of the clamping arms, when the clamps are in operation. Disconnect and lock out pneumatic and electric supply lines before operating on or around clamps.

A worksheet for the right sizing of the pin packages is available upon request. Visit our website for technical documents

https://flutech.co.th/



Clamps in open position with auto-retain device

Clamp arm assembly



Position 1



Position 3



Position 2



Position 4

Please check the max opening angle related to the different arm position in our catalogue.

Auto-retaining device for opening position



Patented

An extremely light device which maintains the clamping arm in its defined opening position in case of air loss. The AR-series has been designed for maximum load capacity and due to its compact dimensions, it can be used on the same side of the manual operation handle.

With the clamping arm in the opening position

Clamp arm installation



Remove the standard bracket.

Step 2

Replace the standard bracket with the specific bracket included AR kit, and tighten it.

Step 3

Adjust the retaining device according to the opening angle, install the pin screw in the threaded hole of the side mount and tighten the retaining device with its screw.

Step 4

Set the interference between the holding device and the pin screw by slightly increasing or decreasing the opening angle adjustment, till the function is secured.

