

# PNEUMATIC ACTUATORS

(linear - rotatable cylinders and tables)

Summary



Products	Type	Series	Page
Micro-cylinders Ø 2,5-4 and 6 mm	MICRO 10	435	P205
Panel air cylinders Ø 6-10-16 mm	E	429	P210
Short-stroke air cylinders Ø 8 to 100 mm	K	441	P215
Short-stroke air cylinders Ø 20 - 25 mm - AFNOR NFE 49-004	KN	442	P216
Air cylinders ISOCLAIR Ø 8 to 25 mm - ISO 6432/CETOP/AFNOR	C.AS	435	P220
Air cylinders ISOCLAIR - COMPACT Ø 12 to 25 mm - ISO 6432/CETOP/AFNOR	CC.AS	435	P220-11
Air cylinders ISOCLAIR Ø 32 to 63 mm - ISO 6431/CETOP	CIS	438	P225
Compact cylinders Ø32 to 100 mm compatible with VDMA/ISO 6431	PEC	449	P227
Air cylinders with integrated pilot valves Ø 40 to 63 mm compatible with VDMA/ISO6431	PEC	449	P228
Eurostandard cylinders Ø 32 to 100 mm with profiled barrel with grooves-VDMA/ISO 6431	PES	453	P229
Eurostandard Omega cylinders Ø 32 to 80 mm - VDMA/ISO 6431	PES	450	P231
Eurostandard cylinders Ø 32 to 200 mm with tie rods - VDMA/ISO 6431	PES	450	P232
"U" & "H" guiding units with slide or ball bearings/cylinders PES series 450	-	-	P237
Rod lock for air cylinders PES series 450	-	-	P238
Eurostandard cylinders special versions Ø 32 to 200 mm	PES	450	P239
Eurostandard cylinders Ø 32 to 200 mm high temperature	PES-HT	450	P239-8
Standard mountings for Eurostandard cylinders series 450-453	PES	434	P242
Anti-corrosive cylinders ISOCLAIR Ø 12 to 25 mm - ISO 6432/CETOP	CIX	435	P252
Anti-corrosive cylinders Ø 32 to 80 mm - ISO 6431/CETOP	CIX	435	P258
Rodless guided or unguided cylinders selection, Ø 6 to 80 mm			P259-3
Rodless cylinders, magnetically induced Ø 6 to 40 mm	STN/STG	445	P260
Rodless band cylinders Ø 25 to 63 mm	STB	446	P265
Rodless band cylinders Ø 16 to 80 mm (STBN-STB) - Ø 25 to 50 mm (STBB)	STBN/STB/STBB	448	P267
Actuators with plain or ball bearing guides Ø 6 to 100 mm	CIB/P2L/P2B/TMB/TLB/TUB	447	P275
Rotatable cylinders with 2,3 or 4 positions Ø 12 to 22 mm	R/RS	429	P285
Miniature "T" shaped detectors for air cylinders Ø 32 to 100 mm with grooves		881	P292
Miniature detectors for air cylinders Ø 8 à 100 mm with dovetail grooves	COMPACT	881	P293
"UNI" miniature detectors for air cylinders Ø 8 to 200 mm	UNI	881	P295
Magneto-inductive detectors for air cylinders Ø 32 to 200 mm	BIM	881	P297

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# AIR CYLINDERS

With its long-standing experience in fluid automation, ASCO/JOUCOMATIC manufactures and markets a wide range of standard air cylinders catering for automation in all areas of industry.

## • A COMPREHENSIVE RANGE

Our range includes:

- short stroke, single or double acting clamping air cylinders Ø 8 to 100 mm - type K, KN, PEC:
  - KN type cylinders conforming with AFNOR standards
  - PEC type cylinders compatible with the ISO/CETOP/AFNOR standards regarding "TG" distances between the centres of the mounting holes so as to be equipped with standard mountings and accessories.
- single or double acting air cylinders, Ø 8 to 63 mm, conforming with ISO/CETOP/AFNOR standards. Type: ISOCLAIR,
- double acting cylinders with profiled barrel or tie rods, Ø 32 to 200 mm conforming with VDMA/ISO standards. Type: PES,
- special-purpose air cylinders (anti-rotation, rod lock, adjustable stroke, etc.),
- rodless cylinders with or without carrier bracket: band cylinders or magnetic drive cylinders,
- rotatable cylinders.

## • WITH INTEGRAL POSITION DETECTION

All ASCO JOUCOMATIC air cylinders are available in 2 versions: with or without provision for incorporating magnetic position-detectors. In the former case, the air cylinder piston is equipped with an annular permanent magnet. Magnetic position detectors reed switch or magneto-resistive are used to provide detection without mechanical contact. The bulbs are connected electrically by wire output or by plug-in connector, and are always equipped with a LED indicator lamp. Self-contained, compact and economic, the air cylinders equipped with detectors provide the up-to-the-minute solution to the problems of compressed-air automation.

## • WITH ADJUSTABLE CUSHIONING

Some of the air cylinders we manufacture are produced with built-in pneumatic cushioning. The cushioning can be adjusted using a fine adjustment screw.

## • FOR USE WITH UNLUBRICATED AIR

The sophisticated construction technology used for the air cylinders allows them to operate using either lubricated air or not.

## • QUALITY

The effort put in, and the resources deployed - CAD design, production and testing using state-of-the-art equipment - demonstrate the determination of ASCO JOUCOMATIC to manufacture air cylinders that are robust, high-performance and ever-increasingly competitive.

## • AVAILABILITY

Backed by specific production logistics and a large sales network, these air cylinders are rapidly available.

## • FASTENERS

A large range of mountings is available, including trunnion mountings, for the cylinder barrel and the rod ends, thus offering wide scope for adapting the air cylinders to any type of mechanism.

