

THE PES CYLINDER RANGE

Complying with AFNOR NFE 49003 - VDMA - ISO 6431 standards

	CLASSIC PES	PES OMEGA
Bore Ø	32 to 200 mm	32 to 80 mm
Fluid	air or neutral gas, filtered, lubricated or dry	air or neutral gas, filtered, lubricated or dry
Max. operating pressure	max. 10 bar	max. 10 bar
Temperature range	-20°C to +60°C	-25°C to +80°C
Max. speed	2 m/sec.	3 m/sec.
Detection	reed switch magneto-resistive magneto-inductive	reed switch magneto-resistive magneto-inductive
Version	profiled barrel cylindrical barrel	profiled barrel cylindrical barrel
Mountings	standardised range	standardised range
Options	rod locking device U or H guide units with smooth or ball bearings stainless steel rod and fastenings high temperature version through rod version	rod locking device U or H guide units with smooth or ball bearings stainless steel rod and fastenings



"U" guide unit



"H" guide unit



Cylinder with rod locking device



PES with through rod



Spool valve mounted on cylinder

Detailed documentation and CAD parametric library for all PES cylinders can be supplied on request



JOUCOMATIC

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PES OMEGA

HIGH PERFORMANCE CYLINDERS

**Low Operating Pressure
Exceptional Service Life**



383 71 68 - GB - 4M0398

JOUCOMATIC



PES OMEGA

HIGH PERFORMANCE CYLINDERS

ASCO/JOUCOMATIC has designed and manufactured a revolutionary patented piston seal. This unique technology guarantees exceptional performance in terms of service life and operating pressure.



LONG SERVICE LIFE

The PES Omega cylinder considerably reduces maintenance costs by ensuring a service life superior to those generally recommended for industrial applications (> 10,000 km).

Examples of applications : welding machines, all high cycle rate equipment.

VERY LOW OPERATING PRESSURE

The flexibility and dynamics of the Omega seal, as well as the minimal friction on the tube, allow this cylinder to be used with less than 0.05 bar pressure.

Examples of applications : packaging machinery for pharmaceutical and electronics industries, etc.

EXCELLENT SENSITIVITY

The high output of the Omega seal ensures rod movement with a very low ΔP between supply and exhaust pressures.

Examples of applications : belt, rope and wire tensioning, test benches.

HIGH SPEED AND LOW SPEED TRAVEL

The PES Omega cylinder moves with great regularity and without jerkiness, from 1 mm per minute up to 3 metres per second.

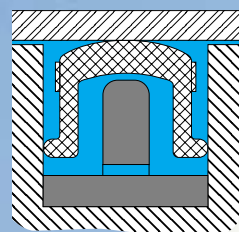
Examples of applications : sheet and fabric folding in the textile industry, high cycle rate loading axes.

STANDARDISED DETECTION

PES Omega cylinders are compatible with our UNI detector range and comply with the force line spectrum recommendations of the automobile industry.

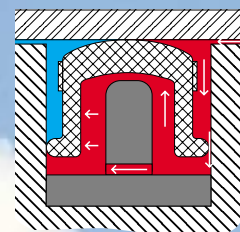
ASCO/JOUCOMATIC's OMEGA seal technology

SEAL AT REST



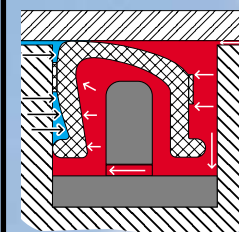
OMEGA seal not under pressure = Minimal contact area

PES OMEGA CYLINDER PRESSURISED



Just a few millibar are required to move the piston/rod assembly

PES OMEGA CYLINDER IN ACTION



Due to the dynamic response of the OMEGA seal, friction remains slight at all operating pressures and total leaktightness is provided.