



FEATURES

- PES cylinder equipped with chemically nickel-plated treated ends for use in aggressive environments, subject to compatibility with standard construction materials (see below).
- On request, this type of cylinder can be equipped with stainless steel piston rods and threaded fasteners

GENERAL

Detection

Fluid

Operating pressure

Ambient temperature

Cushioning

Standards

Equipped for magnetic position detectors

Air or neutral gas, filtered, lubricated or not

10 bar max.

-20°C to +70°C

Pneumatic, adjustable at both ends by captive screws

ISO 15552-AFNOR NF ISO 15552-DIN ISO 15552



CONSTRUCTION

Barrel

Front and rear ends

Barrel/end connection

Bearing

Rod

Threaded fasteners

Hard anodized aluminium alloy

Aluminium alloy + chemical nickel

With stainless steel tie-rods

metal self lubricating

Hard chrome plated steel

Zinc-plated steel

SPECIFICATIONS

DEFINING THE CYLINDER WITH PROFILED BARREL

Standard version: profiled barrel with adjustable pneumatic cushioning, equipped for magnetic position detectors (T-slot grooves in 12 o'clock position). Other versions available (see tables below).

To order, please specify:

■ **CYLINDER**

- The cylinder type (profiled, with cushioning, equipped for magnetic position detectors).
- The position of the T-slot groove or dovetail groove on the cylinder.
- The cylinder diameter and its stroke

■ **DETECTORS:** The magnetic position detectors must be ordered separately:

- "T" model (see page P291), reed switch or magneto-resistive type

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barrel	cylinder type			type
	cushioning	detection	through rod	
profiled barrel	with	prévu	without	1E
barrel	with	prévu	with	1Q

groove position		type
position of the T-slot grooves on the profiled PES cylinder	12 o'clock	0
	3 o'clock	3
	6 o'clock	6
position of the dovetail grooves on the profiled PES cylinder	9 o'clock	9
	12 o'clock	9
	3 o'clock	0
	6 o'clock	3
	9 o'clock	6

Ø (mm)	standard stroke (mm) (1)											max. stroke (mm)					
	(recommended standard stroke)																
	25	50	80	100	125	160	200	250	320	400	500	630	700	800	900	1000	
32	•	•	•	•	•	•	•	•	•	•							1000
40	•	•	•	•	•	•	•	•	•	•							1500
50-63	•	•	•	•	•	•	•	•	•	•	•	•					1800
80	•	•	•	•	•	•	•	•	•	•	•	•	•				2000
100	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	2000

(1) Others strokes (consult us)

cylinder Ø	
type	Ø (mm)
3	32
4	40
5	50
6	63
8	80
1	100

Ordering example:

- profiled cylinder with pneumatic cushioning equipped for detectors = **1E**
- T-slot grooves at 3 o'clock position = **3**
- Cylinder Ø 80 mm = **8**
- Stroke 100 mm = **0100**

Ordering catalogue number : **45351E380100**

OPTIONS

- Other strokes on request
- Piston rod in 316L stainless steel, catalogue number: **995002** - in 303 stainless steel, catalogue number: **995202**
- Overlength piston rod in hard chrome steel, cat. n°: **995003** - in 316L stainless steel, cat. n°: **995004** - in 303 stainless steel, cat. n°: **995204**

ACCESSORIES: Protective groove cover and detector cable holder - see page P291

MOUNTINGS: see page P229-18

DIMENSIONS : see page P229-16



FEATURES

- PES cylinder equipped with chemically nickel-plated treated ends for use in aggressive environments, subject to compatibility with standard construction materials (see below).
- On request, this type of cylinder can be equipped with stainless steel piston rods, tie rods and threaded fasteners

GENERAL

Detection	Equipped for magnetic position detectors
Fluid	Air or neutral gas filtered, lubricated or not
Operating pressure	10 bar max.
Ambient temperature	0°C to +70°C
Cushioning	Pneumatic, adjustable at both ends by captive screws
Standards	ISO 15552-AFNOR NF ISO 15552-DIN ISO 15552

CONSTRUCTION

Barrel	Hard-anodized aluminium
Tie rods	Stainless steel (Ø32 to 100 mm) Painted steel (Ø125 to 200 mm)
Piston rod	Hard chrome plated steel
Nut	Zinc-plated steel
Front and rear ends	Aluminium alloy
Threaded fasteners	Zinc-plated steel

SPECIFICATIONS

To order, please specify :

- Catalogue number or part number of standard PES cylinder
- Option catalogue number for chemical nickel-plating treatment :

	Ø (mm)	32 (1)	40	50	63	80	100	125	160	200
catalogue number	single rod	995126	995127	995128	995129	995130	995131	995132	995133	995134
	through rod	995135	995136	995137	995138	995139	995140	995141	995142	995143

(1) In the case of use of a BIM magnetic detector on PES series 450 Ø 32, it is necessary to add the option catalogue number = **995125**

(2) **The magnetic position detectors are ordered separately:**

- "T" model (see page P291), reed switch or magneto-resistive type

OPTIONS

- Other strokes on request
- Piston rod in 316L stainless steel, catalogue number: **995002** - in 303 stainless steel, catalogue number: **995202**
- Overlength piston rod in hard chrome steel, cat. n°: **995003** - in 316L stainless steel, cat. n°: **995004** - in 303 stainless steel, cat. n°: **995204**

MOUNTINGS: Fastener catalogue numbers and quantities (see page P229-18)

DIMENSIONS: same as standard cylinders (see page P229-6)



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