

**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**

<b>Detection</b>	<b>Equipped for magnetic position detectors</b>
<b>Fluid</b>	Air or neutral gas, filtered, lubricated or not
<b>Operating pressure</b>	10 bar max.
<b>Ambient temperature</b>	-20°C to +70°C
<b>Cushioning</b>	Pneumatic, adjustable at both ends by captive screws
<b>Standards</b>	ISO 15552-AFNOR NF ISO 15552-DIN ISO 15552

**CONSTRUCTION**

<b>Barrel</b>	Hard anodized aluminium alloy
<b>Front and rear ends</b>	Aluminium alloy + chemical nickel
<b>Barrel/end connection</b>	With stainless steel tie-rods
<b>Bearing</b>	metal self lubricating
<b>Rod</b>	Hard chrome plated steel
<b>Threaded fasteners</b>	Zinc-plated steel



**B**

**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), "COMPACT" model (see page P293), reed switch or magneto-resistive type

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barrel	cylinder type			type
	cushioning	detection	through rod	
profiled	with	prévu	without	<b>1E</b>
barrel	with	prévu	with	<b>1Q</b>

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

Ø (mm)	standard stroke (mm) <sup>(1)</sup>											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)
<b>3</b>	32
<b>4</b>	40
<b>5</b>	50
<b>6</b>	63
<b>8</b>	80
<b>1</b>	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**

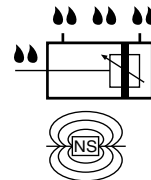
- Other strokes on request
- Piston rod in 316L stainless steel, catalogue number: **995002** - in 303 stainless steel, catalogue number: **995202**
- Overlength piston rod in hard chrome steel, cat. n°: **995003** - in 316L stainless steel, cat. n°: **995004** - in 303 stainless steel, cat. n°: **995204**

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

**MOUNTINGS:** see page P242

**DIMENSIONS :** see page P229

**CYLINDERS WITH TIE RODS**  
 Ø 32 to 200 mm - double acting  
 ISO 15552-AFNOR-DIN  
 with chemically nickel-plated treated ends



**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**

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



**CONSTRUCTION**

<b>Barrel</b>	Hard-anodized aluminium
<b>Tie rods</b>	Stainless steel (Ø32 to 100 mm) Painted steel (Ø125 to 200 mm)
<b>Piston rod</b>	Hard chrome plated steel
<b>Nut</b>	Zinc-plated steel
<b>Front and rear ends</b>	Aluminium alloy
<b>Threaded fasteners</b>	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
<b>catalogue number</b>	single rod	<b>995126</b>	<b>995127</b>	<b>995128</b>	<b>995129</b>	<b>995130</b>	<b>995131</b>	<b>995132</b>	<b>995133</b>	<b>995134</b>
	through rod	<b>995135</b>	<b>995136</b>	<b>995137</b>	<b>995138</b>	<b>995139</b>	<b>995140</b>	<b>995141</b>	<b>995142</b>	<b>995143</b>

(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), "COMPACT" model (see page P293), 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 P242)

**DIMENSIONS:** same as standard cylinders (see page P232)