

FEATURES

- PES cylinder equipped with seals (piston rod seal + all internal seals) of FPM 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 and corrosion-resistant ends.

CYLINDER WITH PROFILED BARREL

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 alloy
Front and rear ends	Aluminium alloy
Barrel/end connection	With stainless steel tie-rods
Bearing	Metal self lubricating
Rod	Hard chrome plated steel
Threaded fasteners	Zinc-plated steel

SPECIFICATIONS

DEFINING THE CYLINDER Ø 32 to 100 mm 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 barrel	with	prévu	without	36
barrel	with	prévu	with	3A

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
	9 o'clock	9
position of the dovetail grooves on the profiled PES cylinder	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 = **36**
- T-slot grooves at 3 o'clock position = **3**
- Cylinder Ø 80 mm = **8**
- Stroke 100 mm = **0100**

Ordering catalogue number : **453536380100**

CYLINDER Ø 125 mm, PROFILED BARREL: catalogue number, single rod version = **45052023**
through rod version = **45052030**

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

CYLINDER WITH TIE-RODS

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
Rod nut	Zinc-plated steel
Front and rear ends	Aluminium alloy
Threaded fasteners	Zinc-plated steel



SPECIFICATIONS

DEFINING THE CYLINDER WITH TIE-RODS CATALOGUE NUMBER

To order, please specify:

■ Cylinder description: **PES FPM seals** type, tie rods barrel, aluminium or steel barrel, single or through rod, cushioned or not cushioned, equipped for magnetic position detectors.

■ Cylinder catalogue number and stroke indication (in mm):

Ø (mm)	PES Ø 32 to 200 mm tie-rod cylinders equipped for magnetic detectors (2)	
	with single rod aluminium barrel	with through rod aluminium barrel
32 (3)	45051081... (1)	45051090... (1)
40	45051082... (1)	45051091... (1)
50	45051083... (1)	45051092... (1)
63	45051084... (1)	45051093... (1)
80	45051085... (1)	45051094... (1)
100	45051086... (1)	45051095... (1)
125	45051087... (1)	45051096... (1)
160	45051088... (1)	45051097... (1)
200	45051089... (1)	45051098... (1)

(1) Indicate the stroke (in mm), preferably choosing standard values (see standard equipment page P232)

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

- "T" model (see page P291), "COMPACT" model (see page P293), reed switch or magneto-resistive type

(3) 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**

MOUNTINGS: Fastener catalogue numbers and quantities (see page P242)

DIMENSIONS: same as standard cylinders (see page P232)

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**

DOUBLE ACTING CYLINDERS - TYPE PES Ø 32 to 200 mm WITH ROD SEAL ONLY OF FPM FEATURES

- *Only the piston rod seal of FPM, affords better corrosion resistance than the standard PUR one, to protect the interior of the seal in the event of use in damp and slightly aggressive environments. On request, this type of cylinder can be equipped with stainless steel piston rods, tie rods and threaded fasteners and corrosion-resistant ends*

SPECIFICATIONS

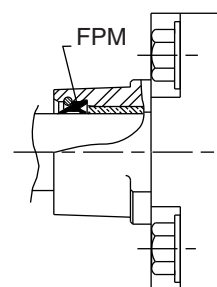
To order, please specify:

■ Cylinder description: Type **PES with FPM seals**, tie rod or profiled barrel, aluminium or steel barrel, single or through rod, cushioned or not cushioned, equipped or not for magnetic position detectors.

■ Catalogue number of standard cylinder and stroke indication (in mm) :

■ FPM rod seal option catalogue number:

Ø (mm)	catalogue number	
	with single rod	with through rod
32	510550	510556
40	510551	510557
50-63	510552	510558
80-100	510553	510559
125	510554	510560
160-200	510555	510561



MOUNTINGS: Fastener catalogue numbers and quantities (see page P242)

OPTIONS: see above