**GENERAL**

Detection

Fluid

Operating pressure

Ambient temperature

Optimal max. speed

Max. speed rate

Standards

CONSTRUCTION

Barrel

Front and rear ends

Barrel/end connection

Bearing

Cushioning seals

Cushioning

Rod

Rod nut

Piston

Piston seals

Equipped for magnetic position detectorsAir or neutral gas, filtered, lubricated or not
10 bar max.-25°C to +80°C (without position detectors)
(for higher temperatures, consult us)

-20°C to +70°C (with position detectors)

≤ 1 m/s (for optimal service life)

3 m/s (at 20°C)

ISO 15552-AFNOR NF ISO 15552-DIN ISO 15552
(replace ISO 6431-AFNOR NFE 49003-VDMA 24562)**SPECIFICATIONS****DEFINING THE CYLINDER CATALOGUE NUMBER**

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

When ordering, please specify:

■ AIR CYLINDER

- The air cylinder type (profiled, with cushioning, equipped for magnetic position detection).
- 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

453 5

barrel	cushioning	position detection	type
profiled barrel	cushioned	equipped	0L

Ø (mm)	standard strokes (mm) (1) (recommended standard strokes)										max. stroke (mm)
	25	50	80	100	125	160	200	250	320	400	
32	●	●	●	●	●	●	●	●	●	●	1000
40	●	●	●	●	●	●	●	●	●	●	1500
50-63	●	●	●	●	●	●	●	●	●	●	1800
80	●	●	●	●	●	●	●	●	●	●	2000

(1) Other strokes on request.

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

Ordering example:

- profiled cylinder with pneumatic cushioning equipped for detectors = 0L
- T-slot grooves at 3 o'clock position = 3
- Cylinder Ø 80 mm = 8
- Stroke 100 mm = 0100

Ordering code: 453 5 0L 3 8 0100

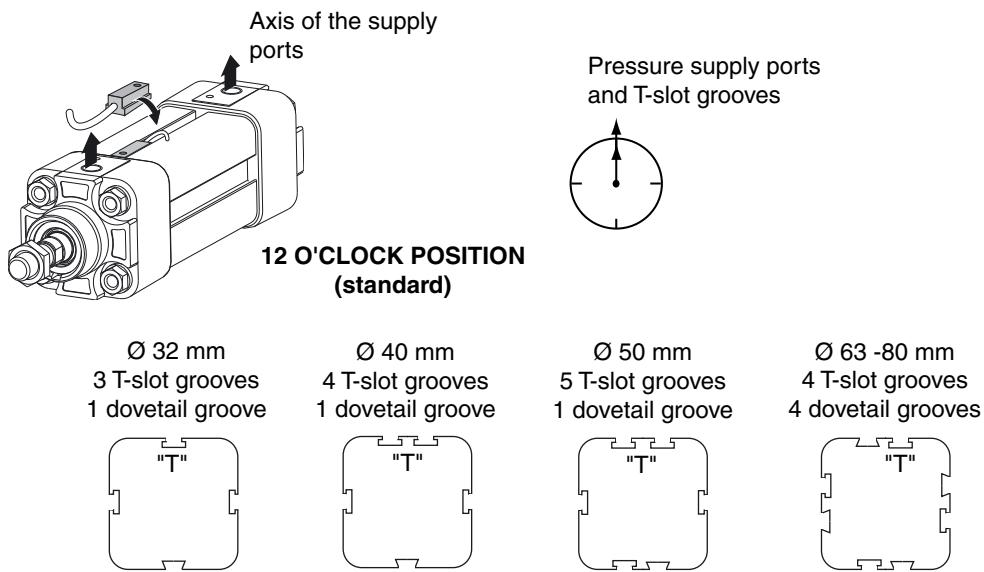
OPTIONS

- 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

POSITION OF THE T-SLOT AND THE DOVETAIL GROOVES

Series 453 PES cylinders offer the advantage of being able to position the T-slot grooves on the cylinder in 4 different positions with reference to the axes of the pressure supply ports. The position must be specified when defining the cylinder code.

STANDARD POSITION OF THE T-SLOT GROOVES**OTHER POSSIBLE POSITIONS (consult us)**