

**GENERAL**

**Detection**  
**Fluid**  
**Operating pressure**  
**Ambient temperature**  
**Max. speed**  
**Standards**

**Non equipped for magnetic position detectors**  
 Air or neutral gas, filtered, lubricated or not  
 10 bar max.  
 0°C, to + 120°C  
 1 m/s  
 ISO 15552-AFNOR NF ISO 15552-DIN ISO 15552

**CONSTRUCTION**

**Barrel**  
**Front and rear ends**  
**Barrel/end connection**  
**Bearing**  
**Cushioning seals**  
**Cushioning**

Hard anodized aluminium alloy  
 Aluminium alloy  
 With stainless steel tie-rods  
 Metal self lubricating  
 FPM (fluoroelastomer)  
 Pneumatic, adjustable from both sides with captive screws  
 Hard chrome plated steel  
 Galvanized steel  
 Aluminium  
 FPM (fluoroelastomer)

**Rod**  
**Rod nut**  
**Piston**  
**Piston seals**



**B**

**SPECIFICATIONS**

**DEFINING THE CYLINDER WITH PROFILED BARREL CATALOGUE NUMBER**

Standard version: profiled barrel with adjustable pneumatic cushioning, non-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, non-equipped for magnetic position detectors).
- The position of the T-slot groove or dovetail groove on the cylinder.
- The cylinder diameter and its stroke.

**453 5**

barrel	cylinder type		type
	cushioning	through rod	
tube	with	without	<b>4N</b>
profilé	with	with	<b>4S</b>

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)

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>

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 without through rod = **4N**
- T-slot grooves at 3 o'clock position = **3**
- Cylinder Ø 80 mm = **8**
- Stroke 100 mm = **0100**

Ordering catalogue number : **45354N380100**

**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:** same as those of standard cylinders (see page P242)

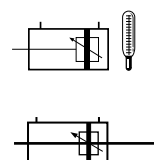
**DIMENSIONS:** same as those of standard cylinders (see page P232)

**CYLINDERS WITH TIE RODS**

Ø 32 to 200 mm - double acting

ISO 15552-AFNOR-DIN

high temperature



Series

**450**

Type

PES T-RHT

PES P-RHT-T2

**GENERAL**

Detection	<b>Non equipped for magnetic position detectors</b>
Fluid	Air or neutral gas, filtered, lubricated or not
Operating pressure	10 bar max.
Ambient temperature	0°C, to + 120°C
Max. speed	1 m/s
Standards	ISO 15552-AFNOR NF ISO 15552-DIN ISO 15552

**CONSTRUCTION**

Barrel	Hard anodized aluminium alloy
Tie rods	Stainless steel
Rod	Hard chrome plated steel
Rod nut	Galvanized steel
Piston	Aluminium
Piston seals	FPM (fluoroelastomer)
Cushioning seals	FPM (fluoroelastomer)
Front and rear ends	Aluminium alloy
Bearing	Metal self lubricating
Cushioning	Pneumatic, adjustable from both sides with captive screws



**SPECIFICATIONS**

Ø (mm)	catalogue number	reference	recommended standard stroke (mm)													max. stroke capability (mm)	connec- tion Ø			
			25	50	80	100	125	160	200	250	320	400	500	630	700			800	900	1000
<b>Single rod cylinder - aluminium barrel (R)</b>																				
32	45050998.... (1)	PES 32 TA ... (1) RHT	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	1000	G 1/8
40	45050999.... (1)	PES 40 TA ... (1) RHT	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	1500	G 1/4
50	45051000.... (1)	PES 50 TA ... (1) RHT	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	1800	G 1/4
63	45051001.... (1)	PES 63 TA ... (1) RHT	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	1800	G 3/8
80	45051002.... (1)	PES 80 TA ... (1) RHT	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	2000	G 3/8
100	45052134.... (1)	PES 100 TA ... (1) RHT	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	2500	G 1/2
125	45052135.... (1)	PES 125 TA ... (1) RHT	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	2500	G 1/2
160	45052136.... (1)	PES 160 TA ... (1) RHT	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	2500	G 3/4
200	45052137.... (1)	PES 200 TA ... (1) RHT	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	2500	G 3/4
<b>Through rod cylinder - aluminium barrel (R)</b>																				
32	45051003.... (1)	PES 32 TA ... (1) RHT-T2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	300	G 1/8
40	45051004.... (1)	PES 40 TA ... (1) RHT-T2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	400	G 1/4
50	45051005.... (1)	PES 50 TA ... (1) RHT-T2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	500	G 1/4
63	45051006.... (1)	PES 63 TA ... (1) RHT-T2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	500	G 3/8
80	45051007.... (1)	PES 80 TA ... (1) RHT-T2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	600	G 3/8
100	45052138.... (1)	PES 100 TA ... (1) RHT-T2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	600	G 1/2
125	45052139.... (1)	PES 125 TA ... (1) RHT-T2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	600	G 1/2
160	45052140.... (1)	PES 160 TA ... (1) RHT-T2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	600	G 3/4
200	45052141.... (1)	PES 200 TA ... (1) RHT-T2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	600	G 3/4

(1) Indicate stroke (in mm) preferably by selecting one of the standard strokes above. Do not exceed maximum possible stroke

**OPTIONS**

- Other strokes on request
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**MOUNTINGS:** same as those of standard cylinders (see page P242)

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