

GENERAL

Detection
Fluid
Operating pressure
Ambient temperature
Max. speed rate
Standards

Equipped for magnetic position detectors
 Air or neutral gas, filtered, lubricated or not
 2 to 10 bar max.
 -20°C to +70°C
 0,5 m/s
ISO 21287
 The diameters and distances between the centres of the mounting holes ensures that any fittings can be attached that comply with
 Ø20-25: **ISO 21287**
 Ø32-100: **ISO 15552-AFNOR NF ISO 15552-DIN ISO 15552**

Minimum pressure to compress the spring (NAR and NAS) : Ø20-50 = 1 bar
 Ø63-100 = 0,65 bar

The return of the piston rod must be without load (single acting version)

CONSTRUCTION

Barrel (non magnetic) Anodized aluminium alloy
Rod Ø 20: stainless steel, Ø 25-100: chrome plated steel
Rod end Tapped or threaded
Piston POM (polyacetal) or light alloy
Piston seal PUR (polyurethane)
Front and rear ends Anodized aluminium alloy
Bearing Self lubricating

SPECIFICATIONS

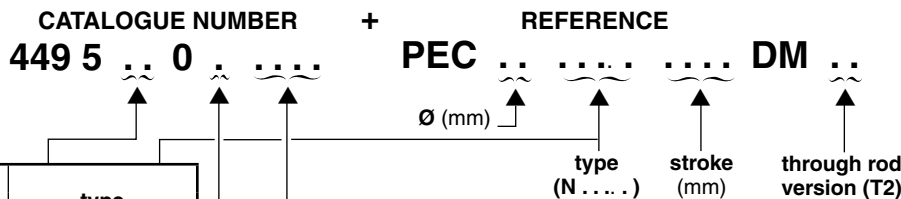
DEFINING THE CYLINDER CATALOGUE NUMBER

To order, please specify:

- **CYLINDER** - The cylinder type (profiled, without cushioning, rod returned or out at rest, equipped for magnetic position detector)
 - 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
 - ATEX (see page X019-318 of ATEX catalogue)



B



cylinder type						type	
barrel	cushio-ning	detection	version	rod end			
Vérin simple effet							
pro- filed barrel	without	equipped	rod returned (NAR)	tapped	TA	NAR.T	
				threaded	60	NAR.F	
			rod out (NAS)	tapped	TE	NAS.T	
				threaded	62	NAS.F	
Vérin double effet							
pro- filed barrel	without	equipped	single rod	tapped	T2	NA.T	
				threaded	02	NA.F	
			Through rod	tapped	TC	NA.T T2	
				threaded	0C	NA.F T2	

Ø (mm)	standard stroke (mm) (1) (recommended standard strokes)				
	5	10	15	20	25
	20	•	•	•	•
25	•	•	•	•	•
32	•	•	•	•	•
40	•	•	•	•	•
50	•	•	•	•	•
63	•	•	•	•	•
80	•	•	•	•	•
100	•	•	•	•	•

rod returned cylinder	rod out cylinder	cylinder Ø	
return force (daN)		Ø (mm)	type
1,9	1,9	20	2
3,5	3,5	25	9
5,7	5,7	32	3
9,4	9,4	40	4
11,4	11,4	50	5
13,9	13,9	63	6
18,4	18,4	80	8
14,8	14,8	100	1

Ø (mm)	standard stroke (mm) (2) (recommended standard strokes)													max. stroke (mm)		
	5	10	15	20	25	50	80	100	125	160	200	250	320		400	
	20	•	•	•	•	•	•	•	•	•	•	•	•		•	•
25	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	90
32	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	400
40	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	400
50	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	400
63	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	400
80	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	400
100	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	400

Ordering example:
 - profiled cylinder with rod out (NAR), tapped rod equipped for detectors = **TA**
 - cylinder Ø 80 mm = **8**
 - stroke 25 mm = **0025**
 Ordering catalogue number : **449 5 TA 0 8 0025**
 Ordering reference : **PEC 80 NAR.T 0025 DM**

MOUNTINGS: see page P8


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

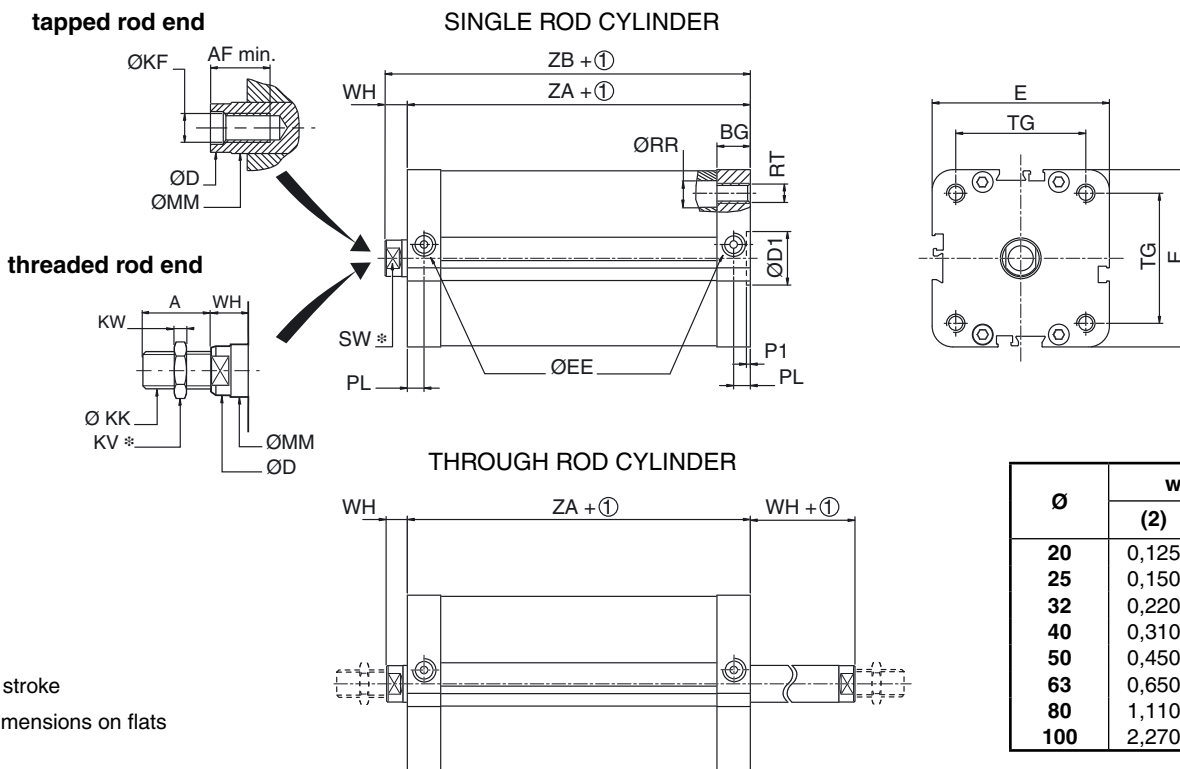
- (1) Indicate stroke (in mm) preferably selecting one of the standard strokes above. Others strokes on request (min. 5, max. 25)
- (2) Indicate stroke (in mm) preferably selecting one of the standard strokes above. Do not exceed maximum possible stroke

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OPTIONS

- Others strokes on request
- Version non equipped for magnetic position detectors (consult us)
- Piston rod in 303 stainless steel, catalogue number: **995202**
- Overlength piston rod in hard chrome steel, cat. n°: **995003** - in 303 stainless steel, cat. n°: **995204**
- Front through rod in hard chrome steel, cat. n°: **995015** - in 303 stainless steel, cat. n° : **995216**
- rear through rod in hard chrome steel, cat. n°: **995017** - in 303 stainless steel, cat. n° : **995218**
- PEC compact cylinders are available in versions for use in potentially **explosive** dust or gas **atmospheres** according to Directive 94/9/EC - Classification : Ex II2GD c - Ta 40°C T85°C (T6) - Ta 70°C T100°C (T5) (ZONE 1-21) - cat n°.: **612106**

DIMENSIONS (mm), WEIGHTS (kg) 
BARE CYLINDER



Ø	weight	
	(2)	(3)
20	0,125	0,0026
25	0,150	0,0030
32	0,220	0,0027
40	0,310	0,0032
50	0,450	0,0044
63	0,650	0,0050
80	1,110	0,0072
100	2,270	0,0110

① + stroke
 * dimensions on flats

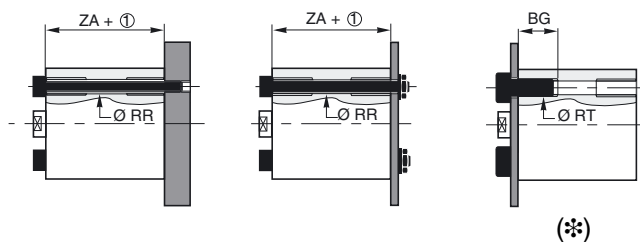
Ø	A	AF	BG	ØD	ØD1	E	EE	ØKF	ØKK	ØKV	KW	ØMM	P1	PL	ØRR	ØRT	SW	TG	WH	ZA	ZB
20	16	10	15	9,8	12	36	M5	M6	M8x1,25	13	4	10	2,5	10	4,5	M5	8	22	6	37	43
25	16	10	15	9,8	12	40	M5	M6	M8x1,25	13	4	10	2,5	10	4,5	M5	8	26	6	39	45
32	19	12	16	11,8	14	47	G1/8	M8	M10x1,25	16	5	12	2,5	7,5	6	M6	10	32,5	7	44	51
40	19	12	16	11,8	14	55	G1/8	M8	M10x1,25	16	5	12	2,5	7,5	8	M6	10	38	7	45	52
50	22	16	16	15,8	18	65	G1/8	M10	M12x1,25	18	6	16	2,5	7,5	10	M8	13	46,5	8	45	53
63	22	16	16	15,8	18	77	G1/8	M10	M12x1,25	18	6	16	2,5	7,5	10	M8	13	56,5	8	49	57
80	28	20	17	19,8	23	95	G1/8	M12	M16x1,50	24	8	20	3	8,5	14	M10	16	72	10	54	64
100	28	20	20	24,8	28	115	G1/8	M12	M16x1,50	24	8	25	3	10	15	M10	21	89	10	67	77

(2) Cylinder weight with 0 mm stroke.
 (3) Weight to be added per additional mm length.

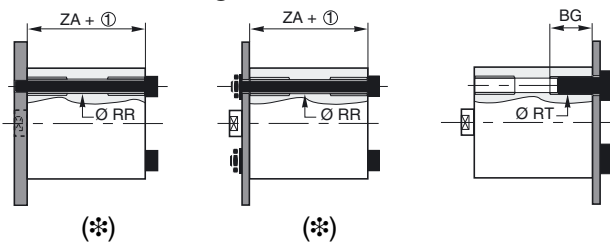
DIRECT MOUNTING OPTIONS (for short-stroke cylinders)

The threaded mounting holes and the four unthreaded through holes (ØRR) ensure compatibility with a wide choice of screws and other fasteners recommended for short-stroke cylinders.

• **Front mounting**



• **Rear mounting**



(* Type of mounting not realizable on anti-rotation version)