

GENERAL

Detection Equipped for magnetic position detectors
Fluid Air or neutral gas, filtered, lubricated or not
Operating pressure 10 bar max.
Ambient temperature -20°C to +70°C (for higher temperatures, contact us)
Optimal max. speed ≤ 1 m/s (for optimal service life)
Max. speed rate 2 m/s
Standards ISO 15552-AFNOR NF ISO 15552-DIN ISO 15552 (replace ISO 6431-AFNOR NFE 49003-VDMA 24562)

CONSTRUCTION

Barrel Hard anodised aluminium alloy
Front and rear ends Aluminium alloy
Barrel/end connection With screws
Bearing Self-lubricating metal
Cushioning seals PUR (polyurethane)
Cushioning Pneumatic, adjustable from both sides with captive screw
Rod Hard chrome plated steel
Rod nut Galvanised steel
Piston Ø 32 to 80 mm: POM (polyacetal)
 Ø 100-125 mm: light alloy, fitted with an annular permanent magnet
Piston seals PUR (polyurethane)



B

SPECIFICATIONS

DEFINING THE CYLINDER CATALOGUE NUMBER

Standard version: profiled barrel with adjustable pneumatic cushioning, equipped for magnetic position detectors
 To order, please specify:

- **CYLINDER** : - The cylinder type (single rod, through rod)
 - 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

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cushioning	position detection	type	
		single rod	through rod
with	equipped	00	0A

Ø (mm)	standard stroke (mm) ⁽¹⁾										max. stroke (mm)						
	(recommended standard strokes)																
	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) Other strokes on request.

Ordering example:

- Profiled cylinder with pneumatic cushioning equipped for detectors = 00
 - Cylinder Ø 80 mm = 8
 - Stroke 100 mm = 0100
- Ordering catalogue number: **452500080100**

cylinder Ø	
type	Ø (mm)
3	32
4	40
5	50
6	63
8	80
1	100

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. no.: **995003** - in 316L stainless steel, cat. no.: **995004** - in 303 stainless steel, cat. no.: **995204**


ACCESSORIES:

- Protective groove cover and detector cable holder - see page P291

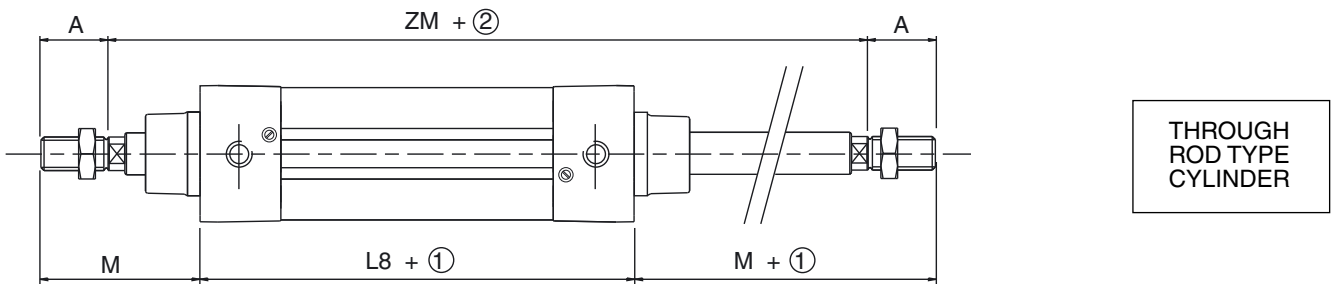
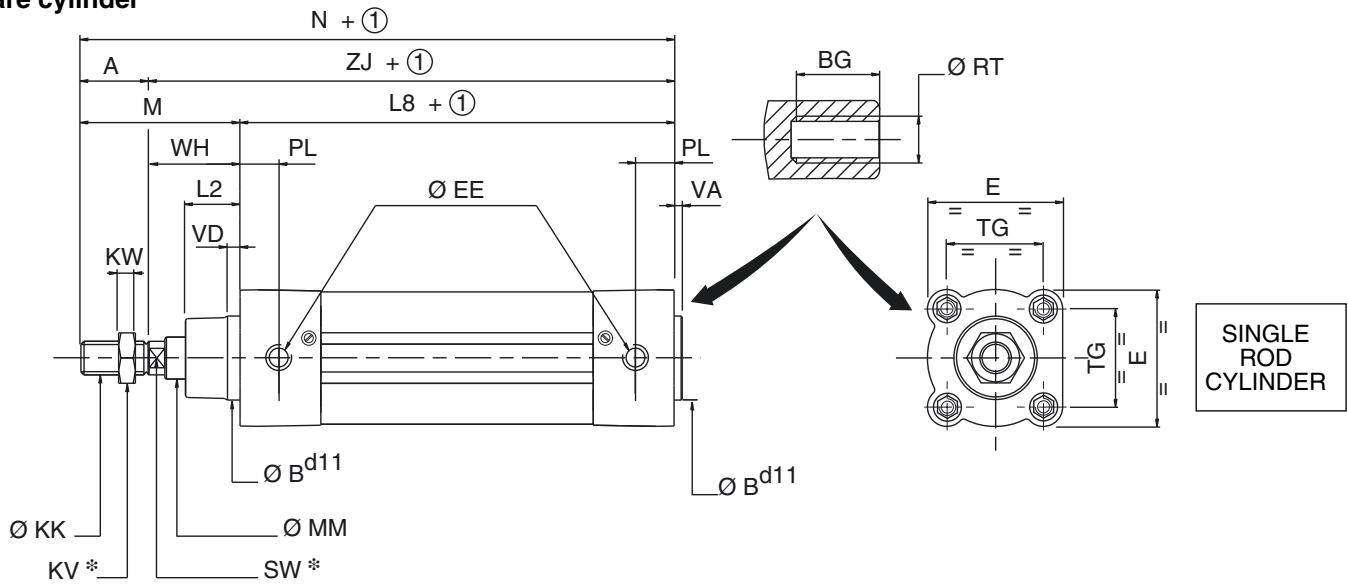
MOUNTINGS: see Fluid Power catalogue page P229-18

VERSIONS: Guiding units, see Fluid Power catalogue page P239

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DIMENSIONS (mm), WEIGHT (kg) 

Bare cylinder



- ① Stroke
- ② Stroke x 2
- * Dimensions on flats

Ø	A	ØB ^{d11}	BG	E	ØEE	ØKK	KV	KW	L2	L8	M	ØMM	N	PL	ØRT	SW ⁽⁵⁾	TG	VA	VD min.
32	22	30	16	46,5	G1/8	M10x1,25	16	5	17	94	48	12	142	14	M6	10	32,5 ±0,5	4	4
40	24	35	16	52	G1/4	M12x1,25	18	6	19	105	54	16	159	16	M6	13	38 ±0,5	4	4
50	32	40	16	64	G1/4	M16x1,5	24	8	24	106	69	20	175	18,5	M8	17	46,5 ±0,5	4	4
63	32	45	16	74	G3/8	M16x1,5	24	8	24	121	69	20	190	19	M8	17	56,5 ±0,5	4	4
80	40	45	17	92	G3/8	M20x1,5	30	10	33	128	86	25	214	16,5	M10	22	72 ±0,5	4	4
100	40	55	17	109	G1/2	M20x1,5	30	10	35,5	138	91	25	229	19,5	M10	22	89 ±0,5	4	4

Ø	WH	ZJ	ZM	weight	
				(3)	(4)
32	26	120	146	0,417	0,256
40	30	135	165	0,687	0,341
50	37	143	180	0,875	0,492
63	37	158	195	1,152	0,542
80	46	174	220	2,052	0,818
100	51	189	240	3,045	0,913

- (3) Cylinder weight with 0 mm stroke
- (4) Weight to be added per additional 100 mm length
- (5) Dimension SW changed against standard AFNOR NFE 49 003.

	NFE 49 003	ISO 15552
Ø 50-63	16	17
Ø 80-100	21	22

Dimensional tolerances according to standard ISO 15552