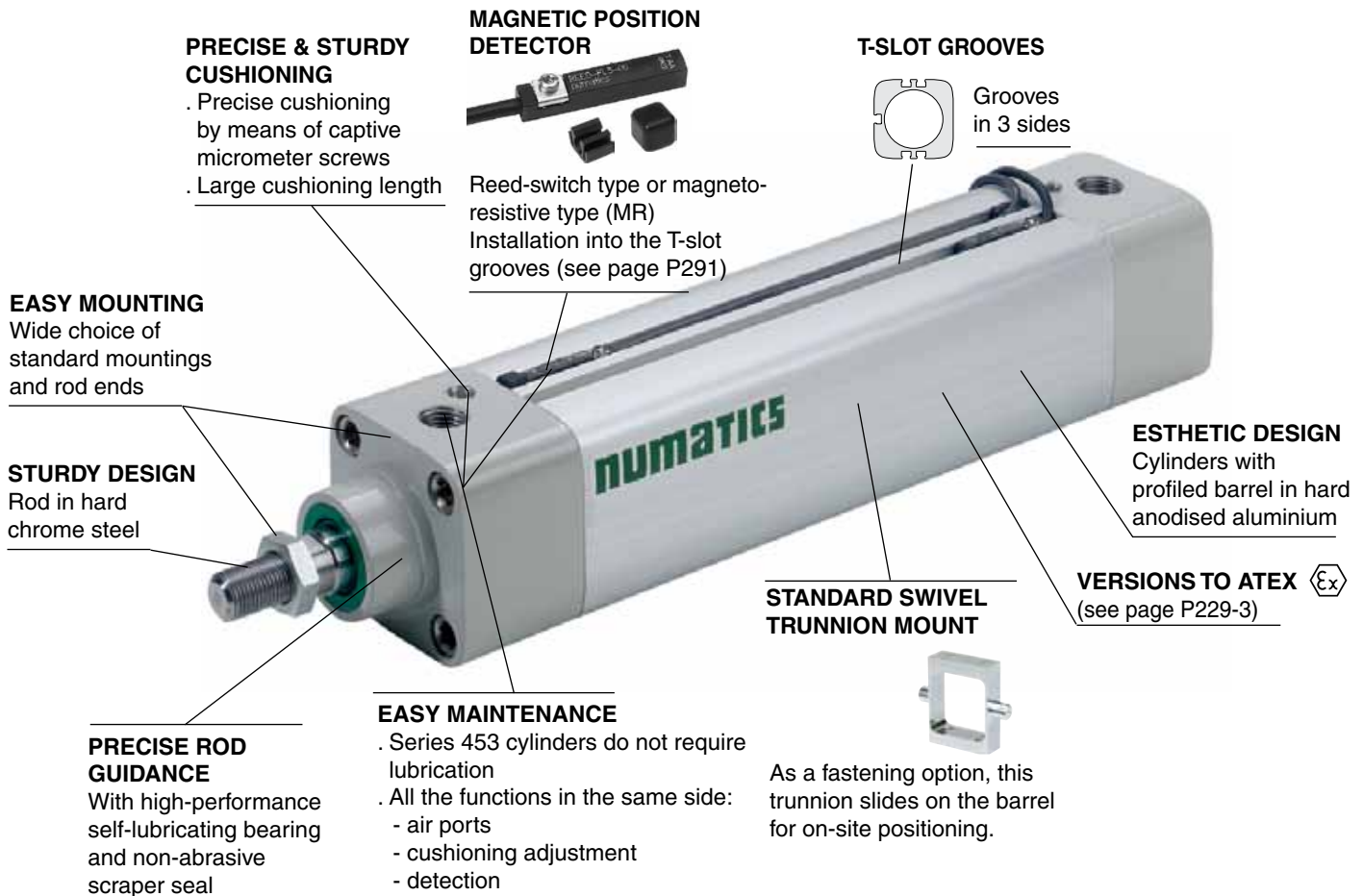
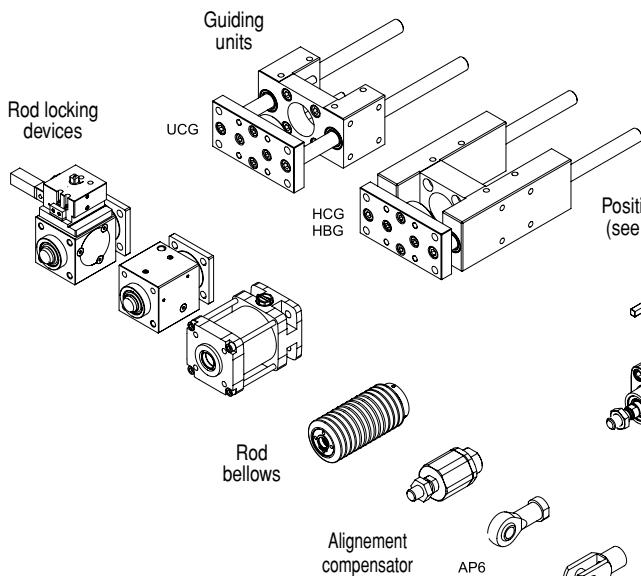
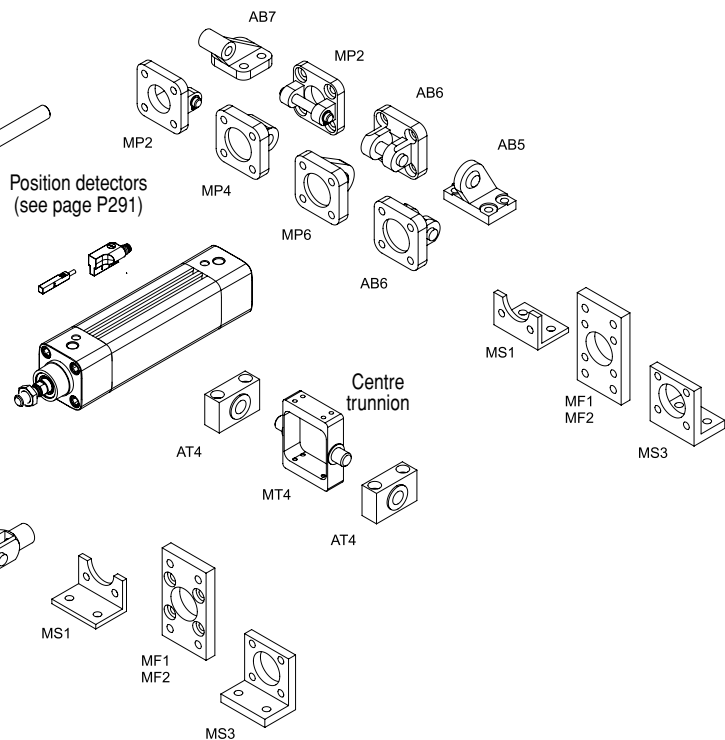




OPTIONS (see page P229-3)



STANDARD MOUNTINGS (see page P229-10)

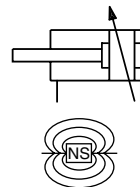


SPECIAL ASSEMBLIES (see page P239-23)

CONFIGURABLE INTO PLUG & PLAY UNITS

5/2 and 5/3 valves with mounting pad to ISO or Namur Mountings, detectors, pneumatic function fittings
 Custom solutions assembled and tested on delivery





GENERAL

Detection

Fluid

Operating pressure

Ambient temperature

Optimal max. speed

Max. speed rate

Standards

Equipped for magnetic position detectors

Air or inert gas, filtered, lubricated or not

10 bar, max. [1 bar = 100 kPa]

–20°C to +70°C (for higher temperature, see HTP option)

≤ 1 m/s (for optimal service life)

2 m/s (for higher and lower speed rate, see LFS option)

ISO 15552-AFNOR NF ISO 15552-DIN ISO 15552

CONSTRUCTION

Barrel	Hard anodized aluminium alloy	
Front and rear ends	Aluminium alloy	
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 mm	light alloy
	fitted with an annular permanent magnet	
Piston seals	PUR (polyurethane)	

HOW TO ORDER

15-DIGIT PRODUCT CODE

G 453 A - S K - - - A00

Thread connection

G = ISO 16030

Product series

453

Revision letter

A = Initial release

Diameter (mm)

3 = 32

4 = 40

5 = 50

6 = 63

8 = 80

1 = 100

Rod options 1

S = Standard

2 = Through rod

3 = AISI 303 stainless steel rod ⁽¹⁾

4 = AISI 303 stainless steel through rod

(1) 316L stainless steel rod, contact us.

Rod options 2

K = Standard

3 = Static rod-locking device (see P239-8)

4 = Static rod-locking device and manual operator (see P239-8)

5 = Dynamic rod-locking device - Ø 40 to 100 mm (see P239-13)

6 = Oversized piston rod - Ø 63 to 125 mm (see P239-18)

8 = Rod bellow (see P239-20)

T = Eye rod end

Extended piston rod, consult us

Options

A00 = Without

MT4 = Non fixed centre trunnion (MT4 axis perpendicular to the ports)⁽¹⁾

MS4 = Non fixed centre trunnion (MT4 axis parallel to the ports)⁽¹⁾

UCG = Plain bearing "U" guiding unit (see P239-1)

HCG = Plain bearing "H" guiding unit (see P239-4)

HBG = Ball bearing "H" guiding unit (see P239-4)

AT1 = ATEX zones 1/21

AT2 = ATEX zones 2/22

HTP = High temperature (up to 120°C)⁽²⁾

FPM = FPM seals

FFP = FPM front end seals

NPC = Anticorrosion treatment on covers & high-quality rod seals

SCN = Stainless steel cover nuts

LFS = Low friction piston seals - Ø 32 to 80 mm⁽³⁾(see P239-22)

NCS = Without pneumatic cushioning

(1) For fixed supplied centre trunnion, consult our Dynamic Product Modeling Tool on www.asconumatics.eu and indicate XV dimension.

(2) Magnetic detectors cannot be fitted to this version.

(3) Special characteristics for this option:

. piston material: light alloy

. max. speed rate: 3 m/s

Recommended standard strokes (mm) ⁽¹⁾

Ø mm	connect. Ø (G)	25	50	80	100	125	160	200	250	320	400	500	600	700	800	900	1000	1500	max. stroke
32	G1/8	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	2000
40	G1/4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	2000
50	G1/4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	2000
63	G3/8	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	2000
80	G3/8	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	2000
100	G1/2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	2000

(1) Other strokes on request.

POSITION DETECTORS

Magnetic position detectors must be ordered separately: "T" model (see page P291), reed switch or magneto-resistive type

MOUNTINGS

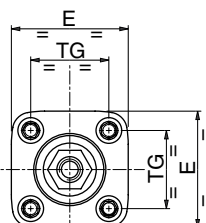
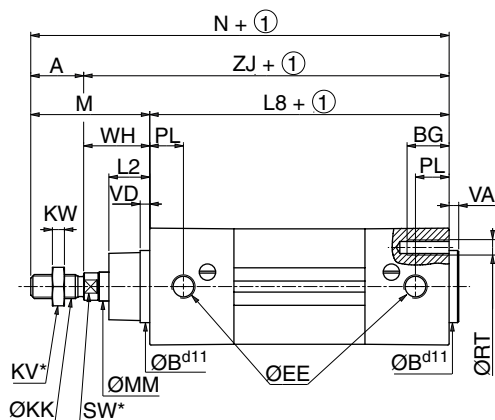
Mountings must be ordered separately: see page P229-10

DIMENSIONS (mm), WEIGHT (kg)



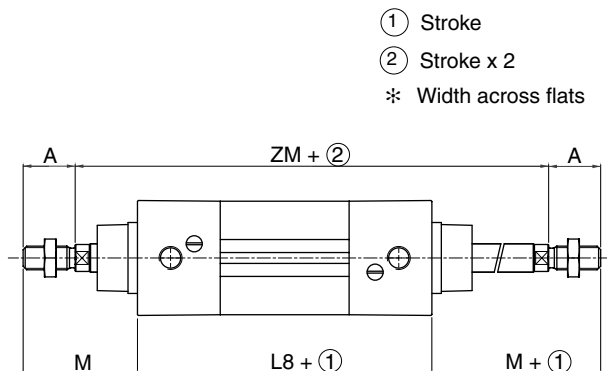
SINGLE-ROD TYPE CYLINDER

Bare cylinder
ISO 15552



THROUGH-ROD TYPE CYLINDER

Bare cylinder
ISO 15552



① Stroke

② Stroke x 2

* Width across flats

Ø (mm)	A	ØBd11	BG	E	ØEE (3)	ØKK	KV	KW	L2	L8	M	ØMM	N	PL	ØRT	SW	TG	VA	VD min.	WH	ZJ	ZM	weight (4)	(5)
32	22	30	16	48	G1/8	M10x1,25	16	5	17	94	48	12	142	14	M6	10	32,5 ±0,5	4	4	26	120	146	0,49	0,0029
40	24	35	16	54	G1/4	M12x1,25	18	6	19	105	54	16	159	16	M6	13	38 ±0,5	4	4	30	135	165	0,78	0,0037
50	32	40	16	66	G1/4	M16x1,5	24	8	24	106	69	20	175	18,5	M8	17	46,5 ±0,5	4	4	37	143	180	1,00	0,0053
63	32	45	16	78	G3/8	M16x1,5	24	8	24	121	69	20	190	19	M8	17	56,5 ±0,5	4	4	37	158	195	1,35	0,0057
80	40	45	17	96	G3/8	M20x1,5	30	10	33	128	86	25	214	16,5	M10	22	72 ±0,5	4	4	46	174	220	2,36	0,0086
100	40	55	17	115	G1/2	M20x1,5	30	10	35,5	138	91	25	229	19,5	M10	22	89 ±0,5	4	4	51	189	240	3,46	0,0099

(3) Thread connections 1/4-3/8-1/2 (G*) have standard combination thread according to ISO 228/1 and ISO 7/1. Thread connections G 1/8 have standard thread according to ISO 228/1

(4) Cylinder weight at 0 mm stroke.

(5) Weight to be added per additional mm length.

SPARE PARTS KITS CODE

Ø (mm)	1 + 2 + 3 + 4 ⁽¹⁾	rod + piston unit
32	97802343	97802736 ⁽²⁾
40	97802344	97802737 ⁽²⁾
50	97802345	97802738 ⁽²⁾
63	97802346	97802739 ⁽²⁾
80	97802347	97802740 ⁽²⁾
100	97802259	97802741 ⁽²⁾

⁽¹⁾ For best results, use grease supplied in each kit. Supplementary tube (11 cm³) available on request, catalogue number: **97802100**

⁽²⁾ Specify stroke length (in mm).