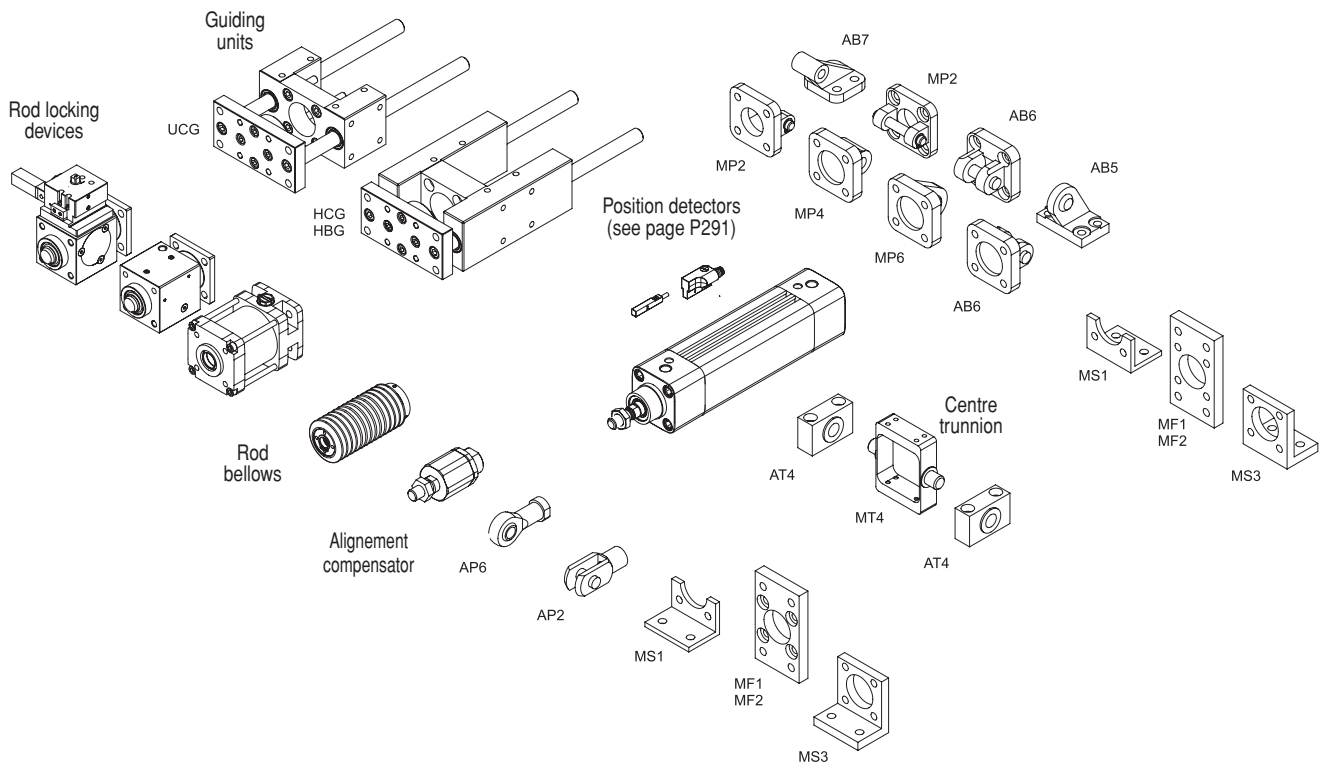


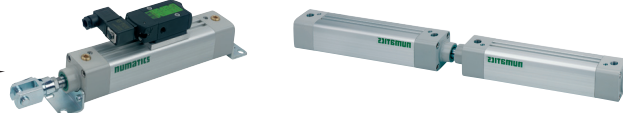
OPTIONS (see page P229-3)

STANDARD MOUNTINGS (see page P235)

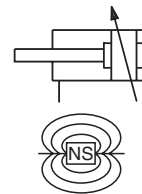


SPECIAL ASSEMBLIES (see page P229-13)

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



All leaflets are available on: www.asconumatics.eu



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

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)	



B

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 = Chromed single rod

2 = Through rod

3 = AISI 303 stainless steel rod

4 = AISI 303 stainless steel through rod

6 = AISI 316 stainless steel rod

7 = AISI 316 stainless steel through rod

All cylinders delivered with rod nut, in stainless steel for options 3, 4, 6 and 7.

Rod options 2

K = No option

3 = Static rod-locking device (see P229-24)

4 = Static rod-locking device and manual operator (see P229-24)

5 = Dynamic rod-locking device - Ø 40 to 100 mm (see P229-29)

6 = Oversized piston rod - Ø 63 to 100 mm (see P229-33)

8 = Rod bellow (see P229-35)

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 P229-20)

HCG = Plain bearing "H" guiding unit (see P229-20)

HBG = Ball bearing "H" guiding unit (see P229-20)

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 P229-15)

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) ⁽⁵⁾

Ø mm	connect. Ø (G)	25	50	80	100	125	160	200	250	320	400	500	630	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

Strokes range available up to "max. stroke" column on the right.

Please note strokes marked in grey exceed the maximum recommended.

⁽⁵⁾ Other strokes on request. / Min. stroke: 5 mm

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 P235

DIMENSIONS (mm), WEIGHT (kg)



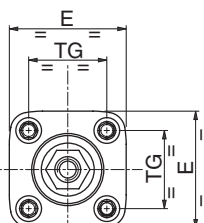
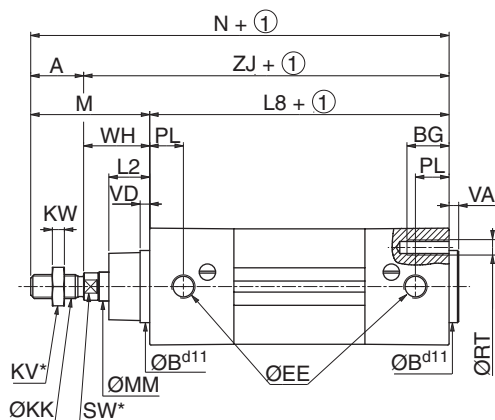
SINGLE-ROD TYPE CYLINDER

Bare cylinder
ISO 15552



THROUGH-ROD TYPE CYLINDER

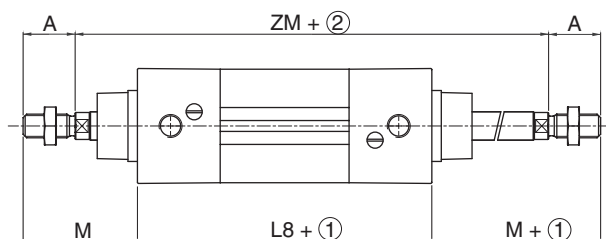
Bare cylinder
ISO 15552



① Stroke

② Stroke x 2

* Width across flats



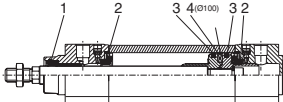
Ø (mm)	A	ØBd11	BG	E	ØEE (3)	ØKK	KV	KW	L2	L8	M	ØMM	N	PL	ØRT	SW	TG	VA	VD min.	WH	ZJ	ZM	weight (4) (5)	
32	22	30	16	48	G1/8	M10x1,25	16	5	17	94	48	12	142	14	M6	10	32,5 ±0,5	4	4	26	120	146	0,49	0,0029
40	24	35	16	54	G1/4	M12x1,25	18	6	19	105	54	16	159	16	M6	13	38 ±0,5	4	4	30	135	165	0,78	0,0037
50	32	40	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 G have standard thread according to ISO 16030.

(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).