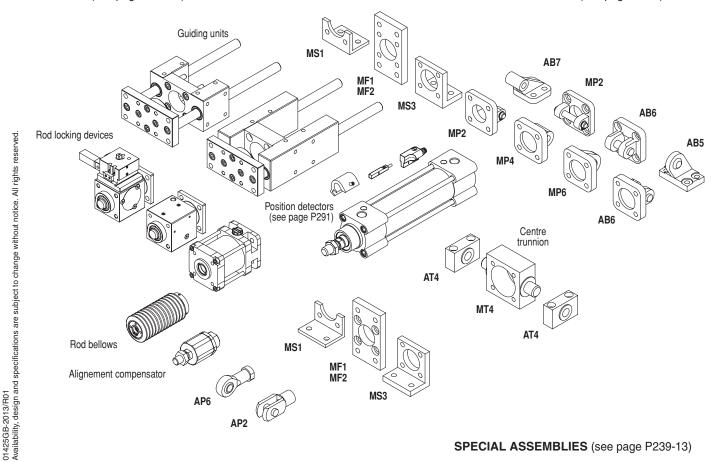


OPTIONS (see page P229-7)

STANDARD MOUNTINGS (see page P235)



Pneutrol International Limited UK Office 5 Caulside Drive, Antrim, BT41 2DU

United Kingdom TEL: +44 (0) 289448 1808 www.valves-direct.com

SPECIAL ASSEMBLIES (see page P239-13)

sales@pneutrol.com European Office Unit 6, Saint Anthony's Business Park, Ballymount Road, D22 VW95 Ireland TEL: +353 (0) 1 4373653 www.valves-direct.com

Series

450

numatics

GENERAL Detection **Equipped for magnetic position detectors** Air or inert gas, filtered, lubricated or not Fluid

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

Max. speed rate Standards

Operating pressure Ambient temperature Optimal max. speed

Barrel	Hard anodized aluminium alloy							
Tie rods	Stainless steel (Ø32-100), steel (Ø 125-200)							
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 chromed steel							
Rod nut	Galvanised steel							
Piston	Ø 32 to 80 mm POM (polyacetal)							
	Ø 100 to 200 mm light alloy							
	fitted with an annular permanent magnet							
Piston seals	PUR (polyurethane)							



2D/3D CAD models - In 3D

HOW TO ORDER

15-DIGIT PRODUCT CODE 450 Thread connection G = ISO 16030**Product series** 450 **Revision letter** A = Initial release Diameter (mm) (1) 3 = 321 = 100**4** = 40 P = 1255 = 50Q = 1606 = 63R = 2008 = 80(1) 250 mm/ 320 mm, contact us 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)

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

Options A00 = Without

A00

FMT = Fixed centre trunnion (axis perpendicular to the ports)⁽²⁾

FST = Fixed centre trunnion (axis parallel to the ports)(2)

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)(3)

FPM = FPM seals

FFP = FPM front end seals

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

 $MMT = \emptyset 125$ mm, with non groved profiled tube

MM4 = Ø125 mm, with non groved profiled tube and non fixed MT4, axis perpendicular to the port

MM5 = Ø125 mm, with non groved profiled tube and non fixed MT4, axis parallel to the port

STN = Stainless steel cover nuts + tie rods

LFS = Low friction piston seals - Ø 32 to 80 mm⁽⁴⁾(see P229-15)

NCS = Without pneumatic cushioning

TAN = Tandem, double force, linked rods (see P229-16)

NDT = Epoxy tube (prepared for inductive detector)

(2) For fixed supplied centre trunnion, consult our Dynamic Product Modeling Tool on

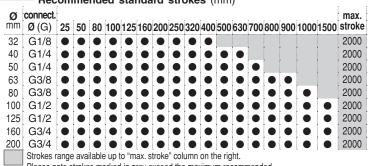
www.asconumatics.eu and indicate XV dimension.

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

(4) Special characteristics for this option:
piston material: light alloy

max. speed rate: 3 m/s

Recommended standard strokes (mm) (5)



Please note strokes marked in grey exceed the maximum recommended.

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

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DIMENSIONS (mm), WEIGHT (kg)





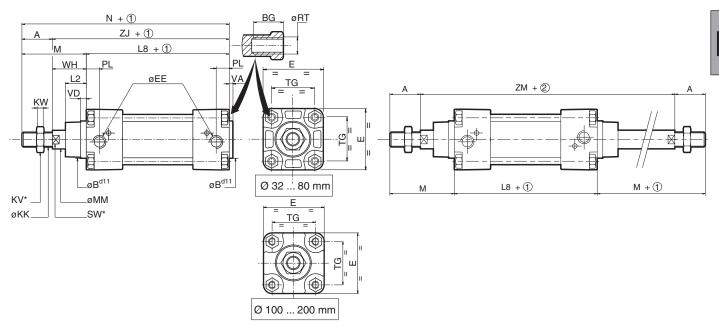
SINGLE-ROD TYPE CYLINDER

Tie-rod cylinder ISO 15552



THROUGH-ROD TYPE CYCLINDER

Tie-rod cylinder ISO 15552



1 Stroke

2 Stroke x 2

Ø	Α	ØBd11	ВG	Е	ØEE	ØKK	ΚV	ĸw	L2	L8	М	øмм	N	PL	ØRT	sw	TG	VA	VD	WH	ZJ	ZM	1 1	ight
(mm)						.0									,	(5)			min.				(3)	(4)
32	22	30	16	50	G1/8	M10x1,25	16	5	17	94	48	12	142	14	M6	10	$32,5 \pm 0,5$	4	4	26	120	146	0,590	0,235
40	24	35	16	57,5	G1/4	M12x1,25	18	6	19	105	54	16	159	16	M6	13	38 ± 0.5	4	4	30	135	165	0,840	0,335
50	32	40	16	65	G14	M16x1,5	24	8	24	106	69	20	175	18,5	M8	17	$46,5 \pm 0,6$	4	4	37	143	180	1,200	0,510
63	32	45	16	79	G3/8	M16x1,5	24	8	24	121	69	20	190	17	M8	17	$56,5 \pm 0,7$	4	4	37	158	195	1,500	0,540
80	40	45	17	100	G3/8	M20x1,5	30	10	33	128	86	25	214	16,5	M10	22	72 ± 0.7	4	4	46	174	220	2,860	0,840
100	40	55	17	120	G1/2	M20x1,5	30	10	35,5	138	91	25	229	21	M10	22	89 ± 0,7	4	4	51	189	240	3,675	1,185
125	54	60	24	145	G1/2	M27x2	41	13,5	40	160	119	32	279	32	M12	27	110 ± 1,1	6	6	65	225	290	6,955	1,360
160	72	65	29,5	180	G3/4	M36x2	55	18	58	180	152	40	332	35,5	M16	36	140 ± 1,1	6	6	80	260	340	12,835	2,100
200	72	75	29,5	220	G3/4	M36x2	55	18	58	180	167	40	347	35	M16	36	175 ± 1,1	6	6	95	275	370	17,575	2,500

(3) Cylinder weight at 0 mm stroke.

Weight to be added per additional 100 mm length.

	SPARE PARTS KITS CODE								
Ø (mm)	1+2+3 (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⁾							
125	97802260	97802742 ⁽²⁾							
160	97802261	97802743 ⁽²⁾							
200	97802262	97802744 ⁽²⁾							
250	contact us	contact us							

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

Specify stroke length (in mm).

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