



- cushioning adjustment

- detection

**OPTIONS** 

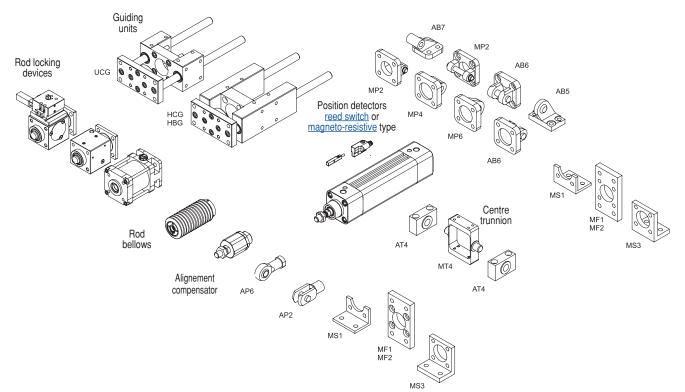
self-lubricating bearing

and non-abrasive

scraper seal

#### STANDARD MOUNTINGS

for on-site positioning.



#### **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





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# CYLINDERS WITH PROFILED BARREL

Ø 32 to 100 mm - double acting ISO 15552

# with pneumatic cushioning



Series

**GENERAL** 

**Standards** 

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

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

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

≤ 1 m/s (for optimal service life)

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

#### **CONSTRUCTION**

Optimal max. speed

Barrel	Hard anodized alumin	ium alloy					
Front and rear ends	Aluminium alloy						
Bearing	Self-lubricating metal						
Cushioning seals	PUR (polyurethane)						
Cushioning	Pneumatic, adjustable from	om 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 Κ Thread connection G = ISO 16030**Product series** 453 **Revision letter** A = Initial release Diameter (mm) 3 = 324 = 405 = 506 = 638 = 801 = 100Rod 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

Configurator - CAD Files

**Options** 

A00

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 HCG = Plain bearing "H" guiding unit HBG = Ball bearing "H" guiding unit

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<sup>(3)</sup>

NCS = Without pneumatic cushioning

<sup>(1)</sup> For fixed supplied centre trunnion, consult our Dynamic Product Modeling Tool on www.asco.com 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)		50	80	100	125	160	200	250	320	400	500	630	700	800	900	1000	1500	max. stroke
32	G1/8	lacktrian	lacksquare		•	•		•	•	•									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

Extended piston rod, contact us

3 = Static rod-locking device

4 = Static rod-locking device and manual operator **5** = Dynamic rod-locking device - Ø 40 to 100 mm 6 = Oversized piston rod - Ø 63 to 100 mm

options 3, 4, 6 and 7.

Rod options 2 K = No option

8 = Rod bellow T = Eye rod end

Magnetic position detectors must be ordered separately: "T" model, reed switch or magneto-resistive type **MOUNTINGS** 

Mountings must be ordered separately

**POSITION DETECTORS** 



### **DIMENSIONS** (mm), **WEIGHT** (kg)



# Configurator - CAD Files

# SINGLE-ROD TYPE CYLINDER

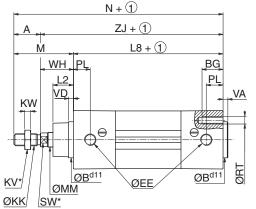
Bare cylinder ISO 15552

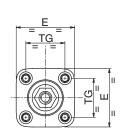


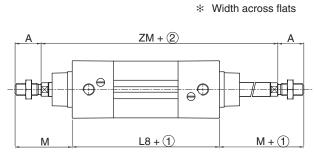
THROUGH-ROD TYPE CYCLINDER Bare cylinder ISO 15552

1 Stroke

2 Stroke x 2







Ø	Ι_Λ	ØBd11	BG	Е	ØEE	ØKK	ΚV	ĸw	L2	L8	М	øмм	N	PL	ØRT	SW.	TG	VA	VD	WH	ZJ	ZM	W	eight
(mm	) ^	DD.	Ба		(3)	OKK	IV	17.44	LZ	LO	IVI	SIVIIVI	14		וווט	344	10	٧٨	min.	***	2	ZIVI	(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	G14	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.
- Cylinder weight at 0 mm stroke.
- 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 <sup>(2)</sup>								
40	97802344	97802737 <sup>(2)</sup>								
50	97802345	97802738 <sup>(2)</sup>								
63	97802346	97802739 <sup>(2)</sup>								
80	97802347	97802740 <sup>(2)</sup>								
100	97802259	97802741 <sup>(2)</sup>								

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

<sup>(2)</sup> Specify stroke length (in mm).