

Actuators

Cartridge Cylinders

Ø 6-16 mm



CA - CAF Series

Pg. 15.3

Mini Cylinders ISO 6432

Ø 8-25 mm



Mini Series

Pg. 15.5

Mini Stainless Steel ISO 6432

Ø 16-25 mm



Mini Stainless Steel Series

Pg. 15.14

Limited Space

Ø 32-63 mm



A95 Series

Pg. 15.17

Compact Cylinders

Ø 12-100 mm



Q Series

Pg. 15.24

ISO 15552 Cylinders

Ø 32-125 mm



L Series

Pg. 15.37

ISO 6431 Cylinders

Ø 160-320 mm



E Series

Pg. 15.44

ISO 15552 Cylinders

Ø 32-125 mm



X Series

Pg. 15.46

Stainless Steel ISO 15552

Ø 32-125 mm



V Series

Pg. 15.51

Twin Rod Cylinders

Ø 32-100 mm



NHA Series

Pg. 15.54

Compact Cylinders

Ø 20-100 mm



W Series

Pg. 15.58

Cylinder Accessories

ISO 6431 - ISO 15552 - ISO 21287



Pg. 15.66

Guided Units

ISO 15552 - Ø 12-25 mm
ISO 6431 VDMA - Ø 32-100 mm



Pg. 15.76

Rodless Cylinders

Ø 16-63 mm



R Series

Pg. 15.85

Rotary Actuators

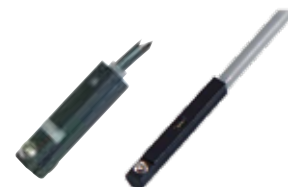
Ø 32-100 mm



XR Series

Pg. 15.96

Magnetic Position Sensing Switches



Sensor

Pg. 15.99

PNEUMATIC ACTUATORS



Actuators

CARTRIDGE CYLINDERS



TECHNICAL CHARACTERISTICS



Component Parts and Materials

- 1 Steel plated rod jam nut
- 2 Brass rod bushing
- 3 Steel spring
- 4 303 Stainless steel piston rod
- 5 Polyurethane rod seal
- 6 Nickel plated brass body
- 7 Zinc plated steel locking screw



Reference Standard

1907/2006
REACH✓

2011/65/CE
RoHS✓

PED
2014/68/UE

SILICON
FREE

ATEX
2014/34/UE



Pressures

2 bar (0.2 MPa) / 29 psi
7 bar (0.7 MPa) / 101.5 psi



Temperatures

0 °C / 32 °F (-20 °C / -4 °F with dry air)
+ 80 °C / 176 °F



Media

Filtered and lubricated or
non-lubricated compressed air



Functions

Single acting threaded and
non-threaded piston rod.



Bores

6 - 10 - 16 mm



Standard Strokes

5 - 10 - 15 mm



Weight

Ø mm	Stroke (mm)		
	5	10	15
6	10 g	12.5 g	15 g
10	27 g	32 g	36 g
16	71 g	78 g	87 g

Series

C

A

F

Ø (mm)

0

6

Stroke (mm)

0

0

1

0

▲ CA Single acting non-threaded piston rod

06

0005

▲ CAF Single acting threaded piston rod

10

0010

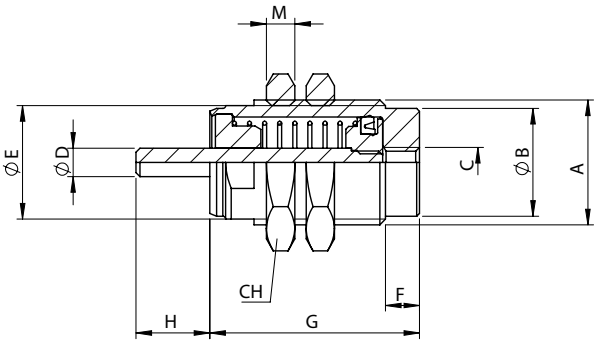
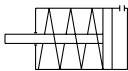
16

0015

Ø (mm)	Stroke (mm)		
	5	10	15
6	▲	▲	▲
10	▲	▲	▲
16	▲	▲	▲

CA

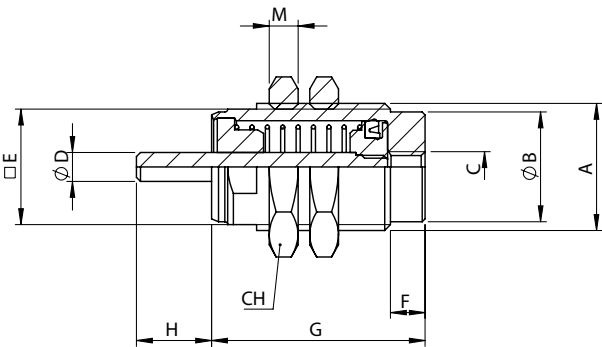
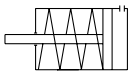
SINGLE ACTING - NON-THREADED PISTON ROD



Ø	A	B	C	D	ØE	F	G Stroke			H	M	CH
							5	10	15			
6	M10x1	8.5	M5	3	9	5	19.5	26.5	33.5	8	3	14
10	M15x1.5	13	M5	5	14	5	21.5	28	35	10.5	4	19
16	M22x1.5	19	M5	5	20	6	24.5	30.5	37	13	5	27

CAF

SINGLE-ACTING - THREADED PISTON ROD



Ø	A	B	C	D	ØE	F	G Stroke			H	M	CH	L
							5	10	15				
6	M10x1	8.5	M5	M3	9	5	19.5	26.5	33.5	8	3	14	7
10	M15x1.5	13	M5	M4	14	5	21.5	28	35	10.5	4	19	10
16	M22x1.5	19	M5	M5	20	6	24.5	30.5	37	13	5	27	12