

**Ideal for very light load applications such as function testing mobile phones and keyboards**

**Low friction characteristics mean high speeds**

**No fittings required - all types feature one integral push on barbed connector**

**Long service life and corrosion resistant materials mean low cost of ownership**



### Technical data

Medium:

Compressed air, filtered, lubricated or non-lubricated

Operating pressure:

50,75 to 101,5 psig (3,5 to 7 bar)

Operating temperature:

32°F to 140°F (0°C to +60°C)

\* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (+2°C)

Cylinder diameters:

2,5 and 4mm

Strokes:

5, 10 mm - Ø 2,5 mm

5, 10, 15, 20 mm - Ø 4 mm

### Materials

Barrel: stainless steel

End caps: aluminium alloy

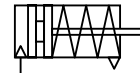
Piston rod: stainless steel

Elastomers: nitrile

### Ordering information

To order a basic 2,5mm diameter cylinder, sprung in with a 10mm stroke quote:

**RM/59102/C/10**





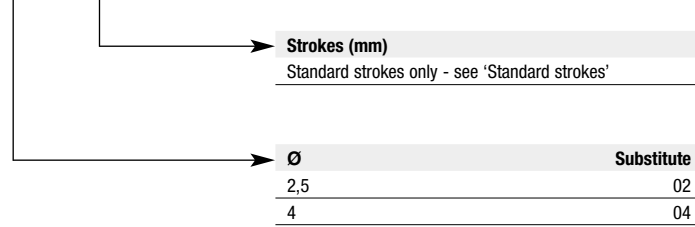
**Theoretical forces ● Air consumption ● Weight of cylinders**

Ø mm	Theoretical forces lb (N) at 87 psig (6 bar)		Air consumption in <sup>3</sup> /cm (l/cm) at 6 bar		Weight lb (kg) by stroke length			
	Outstroke	F1	Instroke	Outstroke	5 mm	10 mm	15 mm	20 mm
2,5	0,65 (2,9)	0.15 (0,7)	0,06 (0,001)	0,06 (0,001)	0,004 (0,002)	0,004 (0,002)	–	–
4	1,70 (7,6)	0.26 (1,2)	0,18 (0,003)	0,18 (0,003)	0,006 (0,003)	0,008 (0,004)	0,010 (0,005)	0,012(0,006)

F1 = Return force

**Options selector**

RM/591★★/C/★★

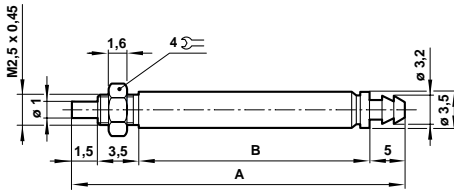


**Standard strokes**

Cylinder Ø mm	Strokes (mm)			
	5	10	15	20
2,5	●	●		
4	●	●	●	●

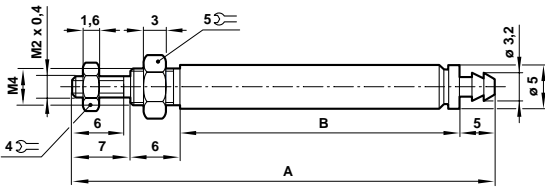
**Basic dimensions**

RM/59102/C



	Ø	A	B
RM/59102/C/5	2,5	1,04 (26,5)	0,65 (16,5)
RM/59102/C/10	2,5	1,40 (35,5)	1,00 (25,5)
RM/59104/C/5	4	1,46 (37)	0,75 (19)
RM/59104/C/10	4	1,81 (46)	1,10 (28)
RM/59104/C/15	4	2,17 (55)	1,46 (37)
RM/59104/C/20	4	2,52 (64)	1,81 (46)

RM/59104/C



Note: push-on connector is suitable for 5/32 Inch O/D, 0.106 Inch I/D (4mm O/D, 2.5 mm I/D) polyurethane tubing

**Warning**

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under 'Technical Data'.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems, or other applications not within published specifications, consult NORGREN.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

**System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.**

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.