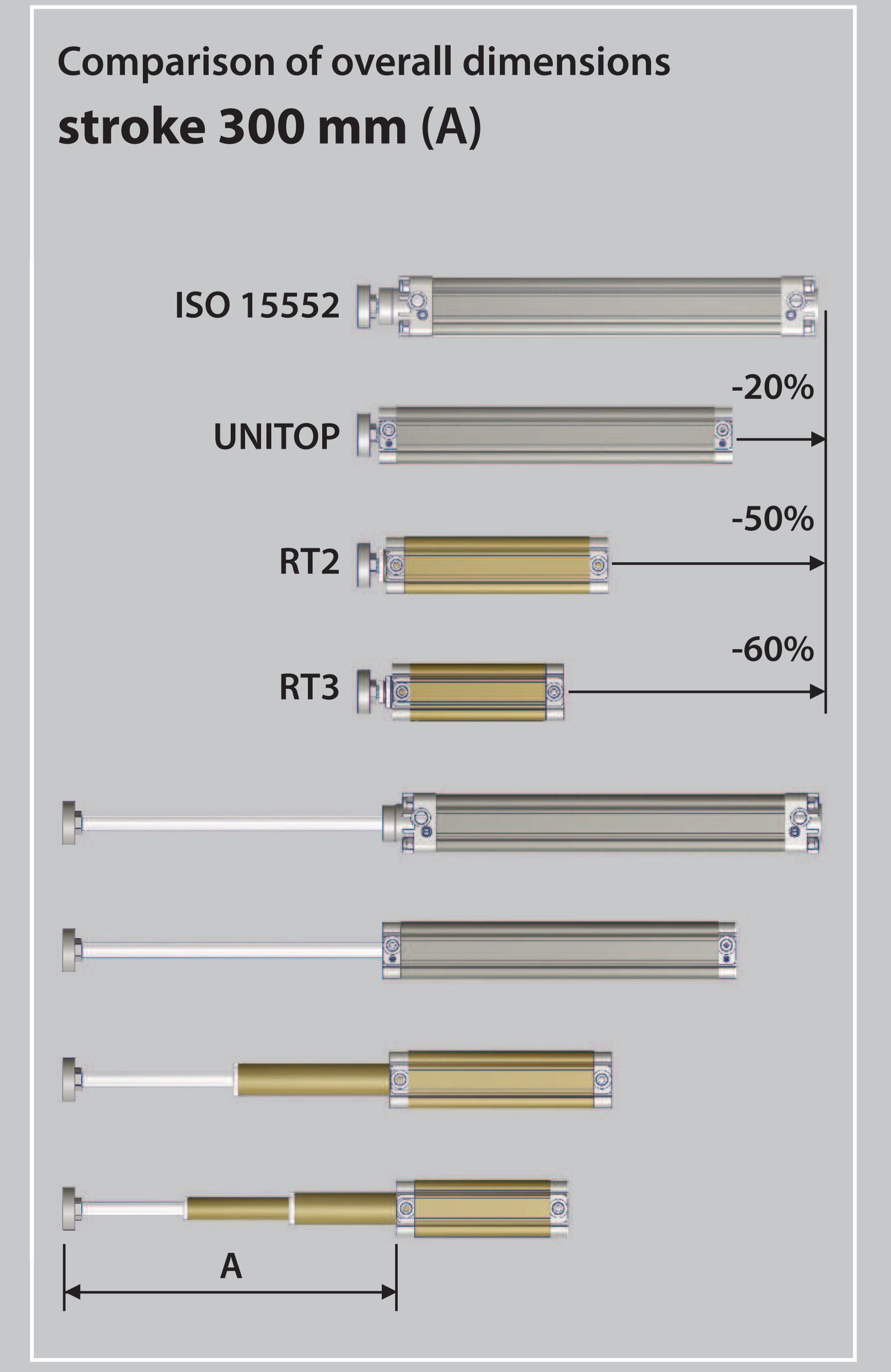


RT Telescopic Cylinders







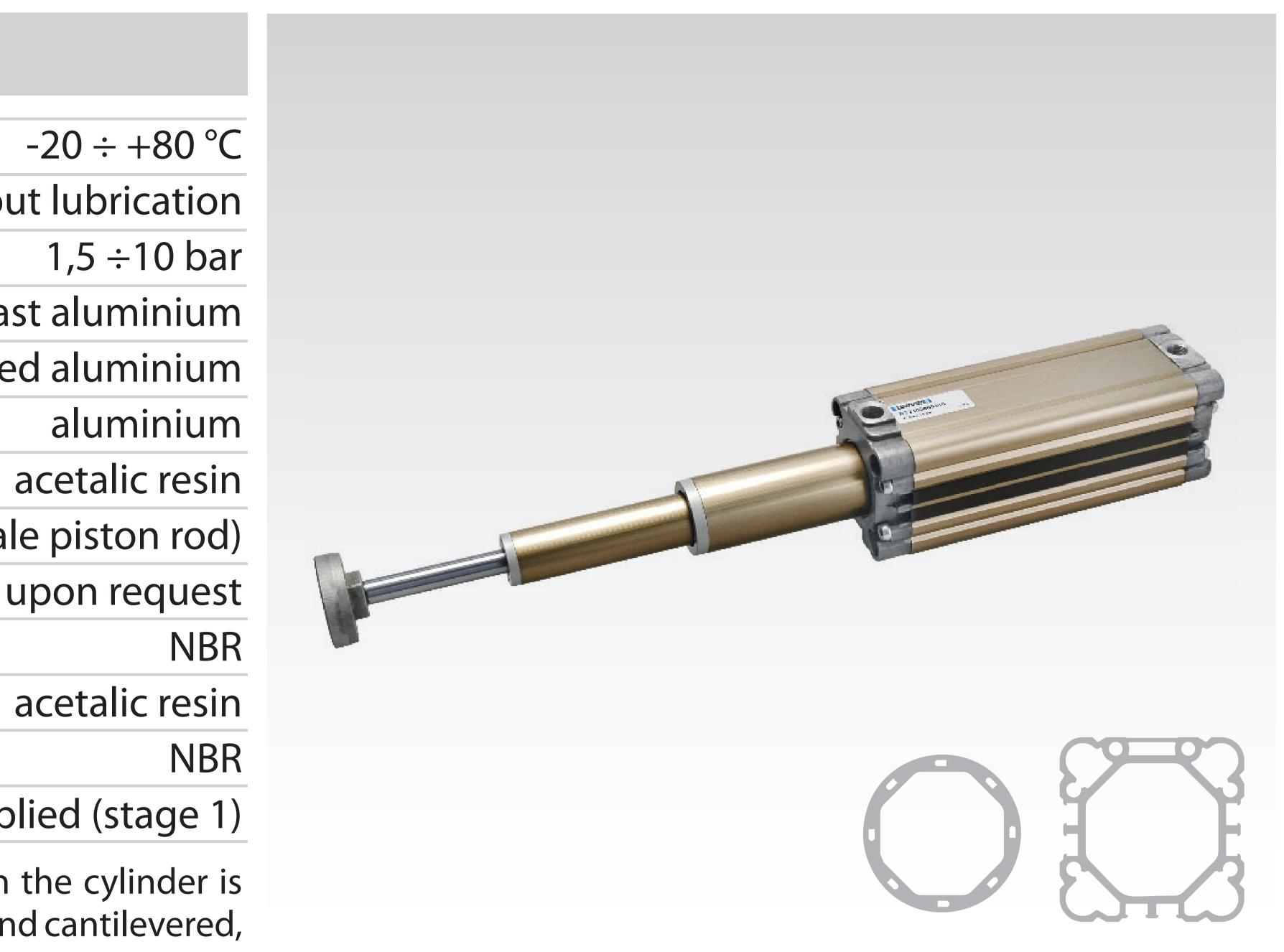


CHARACTERISTICS

| Ambient temperature | -20 ÷ +80 °C |
|---------------------|--|
| Fluid | filtered air, with or without lubrication |
| Working pressure | 1,5 ÷10 bar |
| End-caps | die-cast aluminium |
| Barrel | internally/externally anodized aluminium |
| Piston | aluminium |
| Guide slide | acetalic resin |
| Piston rod | non-rotating, chromium-plated steel, with flange (female piston rod) |
| | stainless steel upon request |
| Piston seals | NBR |

standard supplied (stage 1) Magnet Telescopic cylinders work under optimal conditions when the load is in axial position, i.e. when the cylinder is placed vertically, working either upward or downward. They can obviously work also horizontally and cantilevered,

- but in this case it is needed to: - Reduce the maximum stroke by 50% compared to nominal maximum strokes
- Request cylinders with slide units
- Support the radial load by means of other devices such as carriages, slides or sliding guides



CODIFICATION KEY

Guide bush for piston rod

Shock absorber seals

| R | T | 2 | 2 | 0 | 0 | 3 | 2 | 0 | 6 | 0 | 0 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 2 | 3 | 4 | | 5 | | | | 5 | | 7 |

4 Type **3** Stages 1 Series 2 Rod

 $RT = \emptyset 25 \div 63 \text{ mm} - 2/3 \text{ Stage}$ Telescopic Pneumatic Cylinders (with non-rotating piston rod and elastic shock absorber seals)

- 1 = Stainless steel piston rod
- 2 = Chromium-plated steel piston rod

- 2 = 2 stages 3 = 3 stages

7 Option

- $\mathbf{0} = \mathbf{D.A.}$ Female piston rod 3 = D.A. Male piston rod

D.A. = Double acting

5 Bore (mm) 6 Stroke (mm)

| 2 stages | 3 stages |
|----------------------|----------------------|
| $025 = \emptyset 25$ | $040 = \emptyset 40$ |
| 032 = Ø32 | $050 = \emptyset 50$ |
| $040 = \emptyset40$ | $063 = \emptyset63$ |
| $050 = \emptyset50$ | |

 $063 = \emptyset63$

2 stages

0100 - 0120 - 0160 - 0180 - 0200 - 0300 - 0400 0500 - 0600 - 0700 - 0800 - 0900 - 1000 - 1100 - 1200

Max stroke: **0300** (Ø25) **0900** (Ø50) **0400** (Ø32) **1200** (Ø63)

0600 (Ø40)

3 stages 0150 - 0180 - 0210 - 0240 - 0270 - 0300 - 0360 - 0450 0600 - 0750 - 900 - 1050 - 1200 - 1500 - 1800

Max stroke: **1200** (Ø40)

> **1500** (Ø50) **1800** (Ø63)

= Without flange (only for female piston rod)

L = Freely rotating piston rod (without flange)

M = With telescopic magnetic shaft (stage 2-3) except for Ø 25, only for female piston rod

Nominal tolerance on stroke (mm) and maximum applicable torque (Nm) for non-rotating piston rod

Theoretical forces at 6 bar (N) (2 stages)

| Theoretical | forces at 6 bar |
|-------------|-----------------|
| (3 stages) | |
| | |

| | Toler | ances | Applicable torque | | | |
|----|----------|----------|-------------------|----------|--|--|
| Ø | m | m | Nm | | | |
| | 2 stages | 3 stages | 2 stages | 3 stages | | |
| 25 | +2/0 | _ | 0,5 | _ | | |
| 32 | +3,2/0 | _ | 0,8 | _ | | |
| 40 | +3,2/0 | +4/0 | 1 | 0,5 | | |
| 50 | +3,2/0 | +4/0 | 2 | 0,8 | | |
| 63 | +3,2/0 | +4/0 | 3 | 1 | | |

| | Available | e surface | Working pressure | | | |
|----|-----------|-----------|------------------|----------|--|--|
| Ø | n | nm² | bar | | | |
| | thrust | traction | thrust | traction | | |
| 25 | 201 | 111 | 123 | 65 | | |
| 32 | 314 | 201 | 192 | 123 | | |
| 40 | 490 | 377 | 300 | 231 | | |
| 50 | 804 | 603 | 492 | 369 | | |
| 63 | 1256 | 1055 | 769 | 649 | | |

| | Available | e surface | Working pressure | | |
|----|-----------|-----------|------------------|----------|--|
| Ø | n | nm² | bar | | |
| | thrust | traction | thrust | traction | |
| 40 | 201 | 111 | 123 | 65 | |
| 50 | 314 | 201 | 192 | 123 | |
| 63 | 490 | 377 | 300 | 231 | |

FIXING ELEMENTS AND ACCESSORIES

| Ø | Female hinge with pin | Counter hinge 90° | Male articulated hinge | Rear male hinge | Front / rear flange | Angle bracket | DF sensor and DHF covering strip | Cable clamping for DF sensor |
|----|-----------------------------|----------------------|------------------------|--------------------|------------------------|---------------|--|------------------------------|
| | | | | | | | | |
| 25 | _ | _ | - | RPF-11025 | RTF-12025 | RTF-13025 | | |
| 32 | KF-10032A | KF-19032 | KF-11032S | KF-11032 | KF-12032 | KF-13032 | DE | |
| 40 | KF-10040A | KF-19040 | KF-11040S | KF-11040 | KF-12040 | KF-13040 | DHE 0020100 | DF-001 |
| 50 | KF-10050A | KF-19050 | KF-11050S | KF-11050 | RTF-12050 | RTF-13050 | DHF-0020100 | |
| 63 | KF-10063A | KF-19063 | KF-11063S | KF-11063 | RTF-12063 | RTF-13063 | | |