

NFZ

Pneumatic actuator with integrated safety locking device

- Locking device embodied in the cylinder rear part in axial position
- High repeatability and intervention speed (16 m/s)
- Recommended use: emergency braking intervention at the speed allowed by the cylinder; for repeated functioning, as locking unit or braking intervention ≤ 50 mm/s
- Piston rod holding force (without axial backlash): ≥ 3 times the thrust of a cylinder supplied at 6 bar
- Locking force independent from ambient conditions or piston rod maintenance
- Locking device passive functioning, in absence of signal and/or air supply



TECHNICAL CHARACTERISTICS

| | |
|------------------------------|------------------------------------|
| Ambient temperature | -10 ÷ 70°C |
| Fluid | 30 µm filtered air |
| Working pressure | 3 ÷ 10 bar |
| Min. pressure locking system | ≥ 3 bar |
| Max speed | 1 m/s |
| Intervention speed | 16 m/s |
| Precision of repeatability | $\pm 0,3$ mm |
| Bores | Ø 32 - 40 - 50 - 63 mm |
| Cushioning | adjustable pneumatic on both sides |

CONSTRUCTIVE CHARACTERISTICS

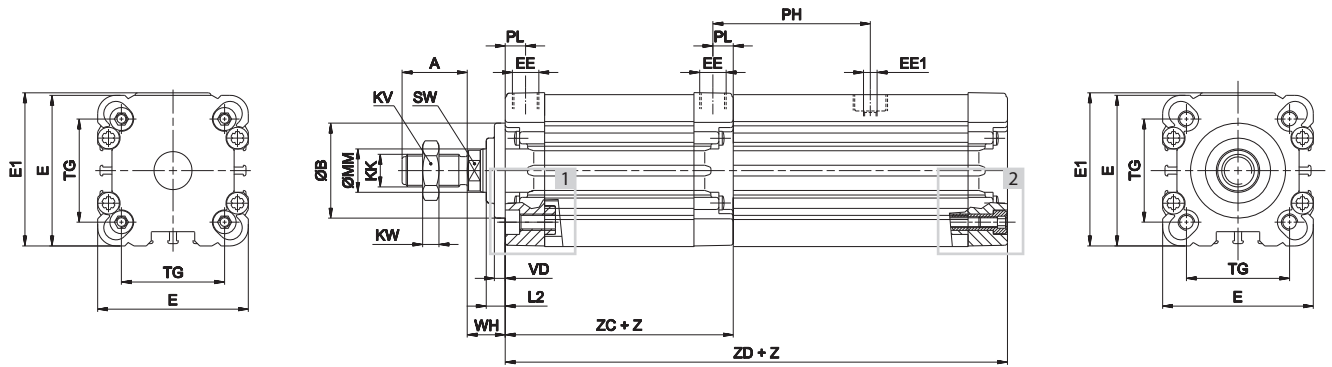
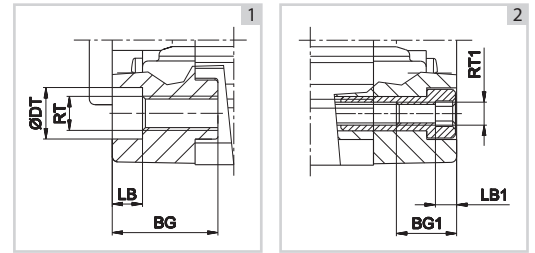
| | |
|---------------------------|------------------------------------|
| End caps | die-cast aluminium alloy |
| Barrel | extruded barrel in aluminium alloy |
| Piston | aluminium |
| Guide slide | acetalic resin |
| Piston rod | chromium-plated steel |
| Piston seal | double-lip seal in nitrile rubber |
| Guide bush for piston rod | acetalic resin |
| Shock absorber seals | nitrile rubber |
| Magnet | ferrite rubber (standard) |

CODIFICATION KEY

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| N | F | Z | 0 | 3 | 2 | 0 | 3 | 5 | 0 |
| 1 | | 2 | | | 3 | | | | |

| 1 Series | 2 Bore (mm) | 3 Max stroke (mm) |
|---|--|--|
| NFZ = Ø 32÷63 mm - Pneumatic actuator with integrated safety locking device | 032 = Ø32 040 = Ø40 050 = Ø50 063 = Ø63 | 350 (Ø32) 450 (Ø40) 600 (Ø50) 750 (Ø63) |

NFZ Ø 32 ÷ 63 mm



Z = Stroke

| Ø | A | B | BG | BG1 | DT | E | EE | E1 | EE1 | KK | KV | KW | LB |
|----|----|----|----|-----|----|----|------|----|-----|----------|----|----|-----|
| 32 | 22 | 30 | 18 | 6,5 | 9 | 46 | G1/8 | 47 | M5 | M10x1,25 | 17 | 6 | 5,3 |
| 40 | 24 | 35 | 18 | 6,5 | 9 | 56 | G1/8 | 57 | M5 | M12x1,25 | 19 | 7 | 5,3 |
| 50 | 32 | 40 | 24 | 6,5 | 11 | 66 | G1/8 | 67 | M5 | M16x1,5 | 24 | 8 | 6,5 |
| 63 | 32 | 45 | 24 | 6,5 | 11 | 79 | G1/8 | 80 | M5 | M16x1,5 | 24 | 8 | 6,5 |

| Ø | LB1 | L2 | MM | PH | PL | RT | RT1 | SW | TG | VD | WH | ZC | ZD |
|----|-----|----|----|------|-----|----|-----|----|------|----|----|-----|-----|
| 32 | 3,5 | 7 | 12 | 55,5 | 7,5 | M6 | M4 | 10 | 32,5 | 4 | 14 | 84 | 177 |
| 40 | 3,5 | 7 | 16 | 58 | 7,5 | M6 | M6 | 13 | 38 | 4 | 14 | 89 | 185 |
| 50 | 3,5 | 10 | 20 | 63 | 7,5 | M8 | M6 | 17 | 46,5 | 5 | 18 | 94 | 194 |
| 63 | 3,5 | 10 | 20 | 63 | 7,5 | M8 | M6 | 17 | 56,5 | 5 | 18 | 114 | 214 |

- For magnetic sensor DF series see chapter 5 Accessories
- Fixing elements and accessories: same as for STRONG series cylinders