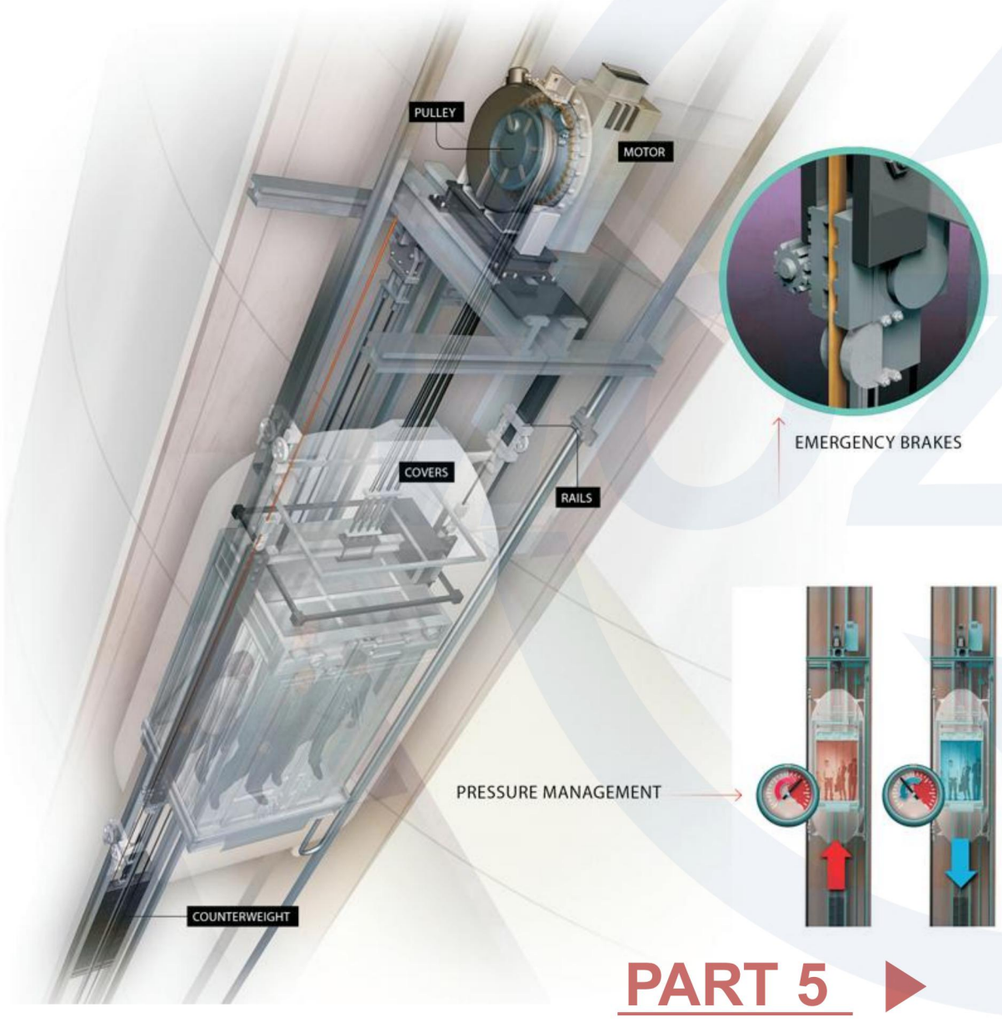
# SAFETY PROTECTION SYSTEM




## PART 5

## Safety Protection System

## SAFETY GEAR

### Progressive Safety Gear


MZT-OX-210A


MZT-OX-210B


MZT-OX-188


MZT-OX-188A


MZT-OX-188B

### Instantaneous Safety Gear


MZT-OX-088


MZT-OX-288


MZT-OX-388

| | | | |
|---|---|---|---|
| Progressive Safety Gear (For Passenger Elevator) | MZT-OX-210A | Lift rated speed | ≤2. 5m/s |
| | | Allowable gross mass(P+Q) | 947-4122kg |
| | | Width of guide rail | 9/10/15.88/16mm |
| | MZT-OX-210B | Lift rated speed | ≤2. 5m/s |
| | | Allowable gross mass(P+Q) | 538-3480kg |
| | | Width of guide rail | 10/15.88/16mm |
| | MZT-OX-188 | Lift rated speed | ≤2. 5m/s |
| | | Allowable gross mass(P+Q) | 809-5125kg |
| | | Width of guide rail | 10/15.88/16mm |
| | MZT-OX-188A | Lift rated speed | ≤2. 5m/s |
| | | Allowable gross mass(P+Q) | 1143-6292kg |
| | | Width of guide rail | 10/15.88/16mm |
| | MZT-OX-188B | Lift rated speed | ≤2. 5m/s |
| | | Allowable gross mass(P+Q) | 565-3240kg |
| | | Width of guide rail | 10/15.88/16mm |
| Instantaneous Safety Gear (For Passenger Elevator) | MZT-OX-088 | Lift rated speed | ≤0.63m/s |
| | | Allowable gross mass(P+Q) | ≤1271kg&1627kg |
| | | Width of guide rail | 10&16mm |
| | MZT-OX-288 | Lift rated speed | ≤0.63m/s |
| | | Allowable gross mass(P+Q) | ≤8500kg |
| | | Width of guide rail | 15.88/16mm |
| | MZT-OX-388 | Lift rated speed | ≤0.63m/s |
| | | Allowable gross mass(P+Q) | ≤12500kg |
| | | Width of guide rail | 15.88/16mm |

MOZITOR ELEVATOR

## Over Speed Governor

Unidirectional for Room Lift



MZT-OX-240

Bi-Directional for Room Lift



MZT-OX-240B

Bi-Directional for Room Lift



MZT-OX-240F

Unidirectional for MRL



MZT-OX-240A

Unidirectional for MRL



MZT-OX-208

Bi-Directional for MRL



MZT-OX-240E

Bi-Directional for MRL



MZT-OX-187

For Cargo Elevator



MZT-OX-001

Underlying



MZT-OX-208A



MZT-OX-186A



MZT-OX-186



MZT-OX-XS1





## Over Speed Governor

| MZT Code | Speed | Rope Sheave Diameter(mm) | Governor Rope(mm) | Tension(M) | Control Position | Production Type | Application |
|---|---|---|---|---|---|---|---|
| MZT-OX-240 | ≤2.5m/s | ϕ240 | ϕ6,ϕ8,ϕ6.3 | 800–1500 | Cabin/Counterweight | Single direction | MR |
| MZT-OX-240A | ≤1.75m/s | ϕ240 | ϕ6,ϕ8,ϕ6.3 | 800–1500 | Cabin/Counterweight | Single direction | MRL |
| MZT-OX-240B | ≤2.5m/s | ϕ240 | ϕ6,ϕ8,ϕ6.3 | 800–1500 | Cabin/Counterweight | Double direction | MR |
| MZT-OX-240E | ≤0.63m/s | ϕ240 | ϕ6,ϕ8,ϕ6.3 | 800–1500 | Cabin/Counterweight | Double direction | MRL |
| MZT-OX-240F | ≤2.5m/s | ϕ240 | ϕ6,ϕ8,ϕ6.3 | 800–1500 | Cabin/Counterweight | Double direction | MR |
| MZT-OX-187 | ≤1.0m/s | ϕ200ϕ240 | ϕ6,ϕ6.3 | ≥500 | Cabin/Counterweight | Double direction | MRL |
| | ≤1.75m/s | ϕ240 | ϕ6,ϕ8,ϕ6.3 | | | | |
| | ≤2.0m/s | ϕ300 | ϕ8 | | | | |
| MZT-OX-186 | ≤0.63m/s | ϕ200 | ϕ6 | ≥500 | Cabin/Counterweight | Double direction | MRL |
| MZT-OX-186A | ≤0.4m/s | ϕ150 | ϕ6 | ≥500 | Cabin/Counterweight | Double direction | MRL |
| MZT-OX-208 | ≤1.75m/s | ϕ200 | ϕ6 | 800–1500 | Cabin/Counterweight | Single direction | MRL |
| MZT-OX-208A | ≤1.75m/s | ϕ200 | ϕ6 | 800–1500 | Cabin/Counterweight | Single direction | MRL |
| MZT-OX-001 | ≤0.63m/s | ϕ280 | ϕ8 | ≥500 | Cabin/Counterweight | Single direction | MR |
| MZT-OX-XS1 | ≤4.0m/s | ϕ320 | ϕ8 | 1000–2000 | Cabin/Counterweight | Single direction | MR |

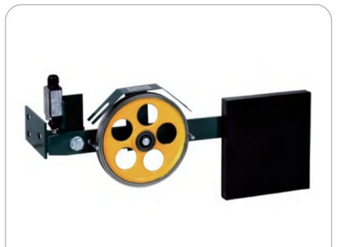
## Tension Device




MZT-OX-300




MZT-OX-200



MZT-OX-100

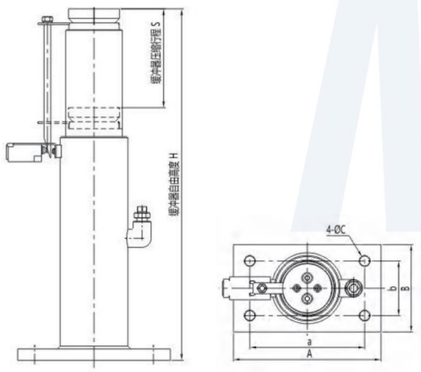
| Tension Device | Application for Over Speed Governor |
|---|---|
| MZT-OX-300 | MZT-OX-240,MZT-OX-240A,MZT-OX-240B,MZT-OX-240E,MZT-OX-240F, |
| MZT-OX-200 | MZT-OX-187,MZT-OX-208,MZT-OX-208A, |
| MZT-OX-100 | MZT-OX-186, |

## Oil Buffer

### Oil Buffer with Inside Spring



MZT-OH-10 MZT-OH-16 MZT-OH-20

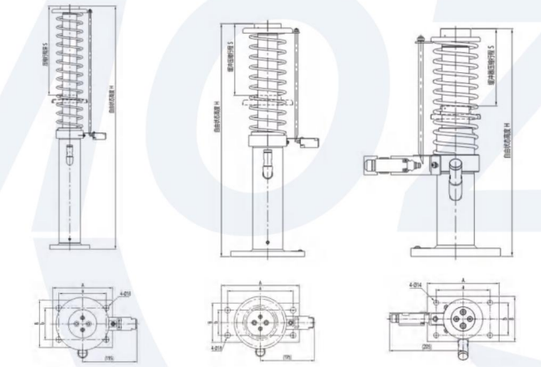


MZT-OH-10, MZT-OH-16, MZT-OH-20

### Oil Buffer with Outside Spring



MZT-OH-65 MZT-OH-70 MZT-OH-80 MZT-OH-175 MZT-OH-210 MZT-OH-220 MZT-OH-275 MZT-OH-425



MZT-OH-65, MZT-OH-425 MZT-OH-70, MZT-OH-220, MZT-OH-275 MZT-OH-80, MZT-OH-175, MZT-OH-210

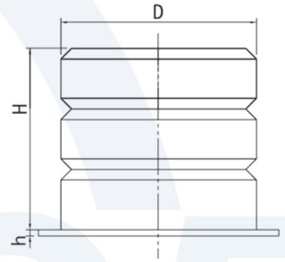
| MZT Code | Rated Speed (m/s) | P+Q (kg) | Plunger Stroke (mm) | Free Height (mm) | a*b (mm) | A*B (mm) | Oil Mass (L) |
|---|---|---|---|---|---|---|---|
| MZT-OH-10 | ⩽1.0 | 300-2500 | 100 | 390 | 150*90 | 180*125 | 0.5 |
| MZT-OH-16 | ⩽1.6 | 700-5300 | 175 | 625 | 210*100 | 270*150 | 1.7 |
| MZT-OH-20 | ⩽2.0 | 1000-5300 | 290 | 915 | 210*100 | 270*150 | 2.6 |
| MZT-OH-65 | ⩽0.63 | 500-4600 | 65 | 350 | 150*100 | 190*160 | 0.45 |
| MZT-OH-70 | ⩽1.0 | 300-2500 | 70 | 305 | 210*80 | 250*125 | 0.5 |
| MZT-OH-80 | ⩽1.0 | 600-3000 | 80 | 315 | 150*90 | 200*125 | 0.4 |
| MZT-OH-175 | ⩽1.6 | 600-3000 | 175 | 510 | 150*90 | 200*125 | 0.6 |
| MZT-OH-210 | ⩽1.75 | 700-3600 | 210 | 600 | 150*90 | 200*125 | 0.8 |
| MZT-OH-220 | ⩽1.75 | 600-2500 | 220 | 780 | 210*80 | 250*125 | 1.3 |
| MZT-OH-275 | ⩽2.0 | 800-3800 | 275 | 790 | 210*80 | 250*125 | 1.5 |
| MZT-OH-425 | ⩽2.5 | 820-3600 | 425 | 1130 | 150*100 | 190*160 | 2.5 |

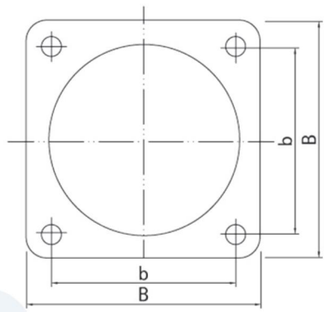




## Rubber Buffer






| Model | Trip | Specifications | Rated Speed | P+Q (kg) | Installation Size | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | B | b | h | ϕ |
| MZT-A-1 | 65 | ∅ 65X80 | ⩽1.0m/s | 200-1200 | 95 | 65 | 4 | 12 |
| MZT-A-2 | 65 | ∅ 80X80 | ⩽1.0m/s | 200-1600 | 108 | 801 | 4 | 12 |
| MZT-A-3 | 80 | ∅ 80X100 | ⩽1.0m/s | 200-2000 | 108 | 76 | 4 | 14 |
| MZT-A-4 | 100 | ∅ 80X128 | ⩽1.0m/s | 200-2600 | 108 | 76 | 4 | 14 |
| MZT-A-5 | 65 | ∅ 100X80 | ⩽1.0m/s | 500-3000 | 128 | 96 | 4 | 14 |
| MZT-A-6 | 80 | ∅ 100X100 | ⩽1.0m/s | 500-3000 | 128 | 96 | 4 | 14 |
| MZT-A-7 | 96 | ∅ 100X120 | ⩽1.0m/s | 500-3000 | 128 | 96 | 4 | 14 |
| | | | | | 165 | 130 | 6 | 14 |
| MZT-A-10 | 136 | ∅ 130X160 | ⩽1.0m/s | 1000-4000 | 160 | 126 | 4 | 14 |
| MZT-A-11 | 160 | ∅ 130X200 | ⩽1.0m/s | 1000-4000 | 160 | 126 | 4 | 14 |
| | | | | | 165 | 130 | 6 | 14 |
| MZT-A-12 | 150 | ∅ 150X180 | ⩽1.0m/s | 500-5500 | 200 | 156 | 4 | 18 |
| MZT-A-13 | 160 | ∅ 160X200 | ⩽1.0m/s | 1800-6500 | 200 | 156 | 4 | 18 |
| MZT-A-15 | 160 | ∅ 200X200 | ⩽1.0m/s | 2000-7000 | 246 | 196 | 4 | 16 |
| MZT-A-18 | 160 | ∅ 250X200 | ⩽1.0m/s | 4000-9000 | 320 | 250 | 4 | 18 |
| MZT-A-22 | 100 | ∅ 160X125 | ⩽1.0m/s | 1800-4500 | 200 | 160 | 10 | 18 |
| MZT-A-23 | 65 | ∅ 165X80 | ⩽1.0m/s | 650-3500 | 190 | 150 | 4 | 18 |
| MZT-A-25 | 65 | ∅ 220X80 | ⩽1.0m/s | 1000-5000 | 260 | 200 | 4 | 18 |
| MZT-A-26 | 153 | ∅ 100X180 | ⩽1.0m/s | 500-3400 | 128 | 96 | 4 | 14 |