



Electric actuator RX® type ER
lightweight design, suitable for mounting on ISO 5211 flanges

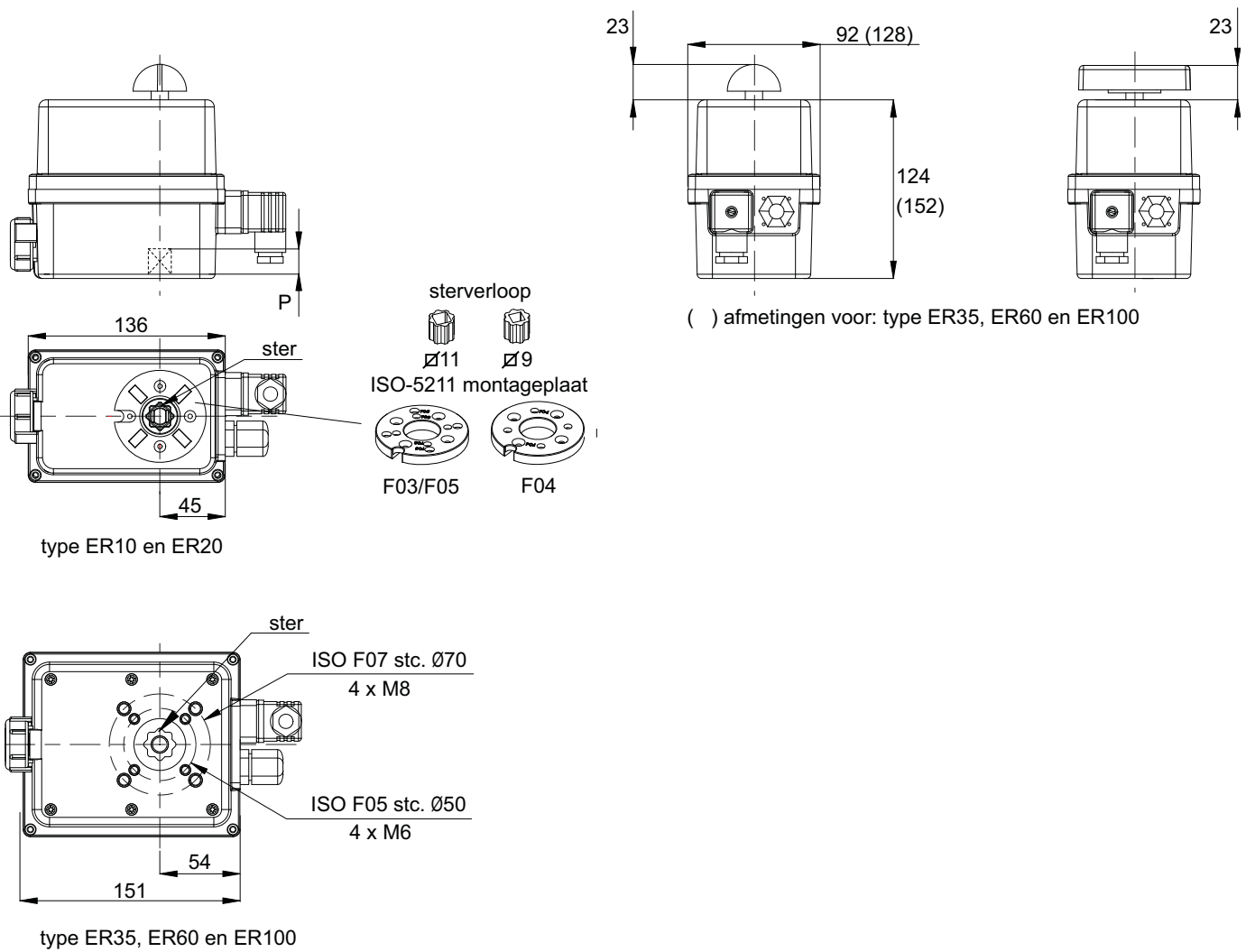
universal, compact electric actuator with position indicator or manual override for quarter on-off valves such as ball valves, butterfly valves and plug valves

| | |
|------------------------------|---|
| Designs | : - standard; relay control; type ER.00 optional; - analogue control; type ER.P6 - failsafe; type ER.S1/S2 |
| Material body | : nylon GF6.6 |
| Material disc | : ABS |
| Material screws | : stainless steel |
| Angle of rotation | : 90°, mechanically limited |
| Ambient temperature | : -10 °C to +55 °C |
| Enclosure protection | : IP65 |
| Position indicator | : removable plastic position indicator on continuous drive shaft |
| Manual override | : on continuous drive shaft; - ER10-20; T grip (provided) - ER35-60-100; with adjustable spanner (not provided) |
| Weight | : - ER10-20; 1.0 kg - ER35-60-100; 2.8 kg |
| Supply voltage | : - 100-240V AC, 50/60Hz or 120-350V DC (+/- 10%) -24V AC/DC |
| Duty rating (CEI34) | : 50% |
| Control | : standard; - open/closed, relay - 3-points modulating optional; - analogue positioning with 4-20 mA or 0-10V control and valve position feedback 4-20 mA or 0-10V, programmable - open/closed, relay design with integrated failsafe system |
| Limit switches | : micro switches, 250V AC, 5A; - x 2 for motor connections - x 2 suitable for position feedback |
| Electrical connection | : - 1 x DIN43650 3P+T cable connector, IP65 (connection supply voltage/control) - 1 x ISO M20 cable connector, IP68 |
| Options | : see table 1 |

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Tabel 1: Options

| | Design | | |
|---|--|-------------------------|------------------------|
| | type ER.00 | type ER.P6 | type ER.S1/S2 |
| Condensation protection | 10W with thermo-switch; type ERT.B | 10W; type ERI.P6 | - |
| Potentiometer for valve position feedback | 100, 1000, 5000 of 10.000 Ohm for 90° angle of rotation; type EPR.B | - | - |
| Analogue valve position feedback | 4-20 mA for 90° angle of rotation; type EPT.A | - | - |
| Extra DIN43650 3P+T cable connector connections | 1 x type ECD.1A | 1 x type ECD.1A | 1 x type ECD.1A |
| Extra limit switches | set with 2 x; type EFC.2 | - | - |
| Handle for hand operation | type ERP | type ERP | type ERP |
| Designs with 180° or 270° angle of rotation | yes | yes | yes |

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Table 2: Dimensions and other technical data

| Type | Dimensions | | | | P | Other technical data | | | |
|---------|-------------------------|------|----------|------------------|----|----------------------|---------------|--------|---------------|
| | ISO 5211 assembly plate | | | | | torque | voltage | output | execution 90° |
| | ISO-F | star | stc. | number x wires | | | | | |
| | mm | Mm | | mm | Nm | V | W | s | |
| ER10* | F03/F04/ F05 | 14 | 36/42/50 | 4 x M5/ M5/M6 | 16 | 10 | 100-240 AC | 15 | 10 |
| | F03/F04/ F05 | 14 | 36/42/50 | 4 x M5/ M5/M6 | 16 | 10 | 24 AC/DC | 15 | 10 |
| ER20 | F03/F04/ F05 | 14 | 36/42/50 | 4 x M5/ M5/M6 | 16 | 20 | 100-240 AC | 15 | 20 |
| | F03/F04/ F05 | 14 | 36/42/50 | 4 x M5/ M5/M6 | 16 | 20 | 24 AC/DC | 15 | 20 |
| ER35 | F05/F07 | 22 | 50/70 | 4 x M6/M8 | 24 | 35 | 100-240 AC | 15 | 35 |
| | F05/F07 | 22 | 50/70 | 4 x M6/M8 | 24 | 35 | 24 AC/DC | 15 | 35 |
| ER60** | F05/F07 | 22 | 50/70 | 4 x M6/M8 | 24 | 60 | 100-240 AC | 15 | 60 |
| | F05/F07 | 22 | 50/70 | 4 x M6/M8 | 24 | 60 | 24 AC/DC | 15 | 60 |
| ER100** | F05/F07 | 22 | 50/70 | 4 x M6/M8 | 24 | 100 | 100-240 AC | 15 | 100 |
| | F05/F07 | 22 | 50/70 | 4 x M6/M8 | 24 | 100 | 24 AC/DC | 15 | 100 |

* not available in a design with analogue control, **type ER.P6**

** shorter execution on request