

**Product catalogue**

RemTEK Electric Drives

Check List

Name of facility Company name Original check list code Filled in by (full name) Contact phone /fax/e-mail Date

Basic data for electric drive selection

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **1. valve parameters** | | | | | | |
| Type of valve | □ tapered gate | □ slide gate | □ valve | □ ball valve | □ disc damper | □ other |
| Valve designation |  | | | Year of production |  | |
| Manufacturer |  | | | | | |
| Maximum permissible pressure, MPa |  | DN, mm |  | Operational pressure, MPa | |  |
| Max. pressure drop, MPa | |  |
| Installation flange size  /connection type as per OST/ISO | □ А | □ B | □ C | □ D | □ E | □ other |
| Pre gearbox availability (for ball valves) | □ no | | □ yes | Gear ratio per torque with performance rate | |  |
| Gear ratio per speed | |  |
| Maximum spindle torque, Nm | Open | | | Close | | |
| Мstroke | Мtear off | Мwrecking | Мstroke | Мtear off | Мwrecking |
| Safety rate as per maximum torque |  | | | | | |
| Maximum load at spindle, N (for valves) | Open | | | Close | | |
| Fstroke | Ftear off | Fwrecking | Fstroke | Ftear off | Fwrecking |
| Number of weight nut turns (for gates) |  |  | Spindle stroke, mm (for gates) | |  |  |
| Operating range, degrees (for gates and ball valves) | □ 45° | □ 90° | □ 180° | □ other ° | | |
| Maximum spindle stroke, mm (for valves) |  | | | | | |
| Minimum shut off time, sec |  | | Maximum shut off time, sec | |  | |
| Drive location | □ on top | | □ underneath | | □ side | |

The check list is available for download at **рэмтэк.рф**

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**Tomsk Electronic company**

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|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **2. Electric drive parameters** | | | | | | | | | | |
| Supply voltage | □ 380 V, 50 Hz | | □ 220 V, 50 Hz | | | □ 220 V, 50 Hz  380 V, 50 Hz | | | □ other  V, Hz | |
| Required torque (force)  at electric drive output arm? Nm (N) |  | | Rate of max. torque of electric drive  to max. design torque of the valve/gate control | | | | | | К = | |
| Drive on the valve location | □ horizontal | | | | □ vertical | | | □ other | | |
| Output arm rotation  of electric drives, rev/min  (for multi-turn and part-turn types) |  | Speed of output arm travel, mm/ sec  (for linear) | | |  | Shut off time, sec (for part- turn) | |  | | |
| Operation time | □ open/close  □ control | | S3 (PV 25% , 60 min)  S4 (PV 25%) Number of starts per hour: | | | | | | | |
| Casing protection | □ IP67 | | | | | □ other | | | | |
| Explosion proof protection | □ 1ExdIIBT4, 11GbcIIBT4 | | | | | | | □ other | | |
| Ambient temperature, °С | min , max | | | | | | | | | |
| Galvanic isolation  of the drive from valve | □ yes | | | | | □ no | | | | |
| Electronic control unit | □ М | | | | □ S  Thyristor reverse converter | | | □ V  Frequency reverse converter | | |
| Connection diagram code (if available) |  | | | | | | | | | |
| Field bus control | □ RS-485  Modbus RTU | □ RS-485  Profibus DP | | | □ ProfiNET | □ CAN | | □  not required | | □ other |
| Discrete signaling outputs | □ yes | | | | | □ no | | | | |
| Discrete control inputs | □ yes | | | | | □ no | | | | |
| Nominal voltage of discrete control circuits | □ 24 V DC | | □ 110 V DC | | | □ 220 V AC | | | | |
| Positioner 4-20 mA | □ yes | | | | | □ no | | | | |
| Current input 4-20 mA | □ yes 1 pc. position | | □ yes 2 pcs. position, torque | | | | □ no | | | |
| Built-in PID process parameter controller | □ yes | | | | | □ no | | | | |
| Connection cable type | □ armored cable | | | | □ cable laid in pipe | | | □ cable laid in steel hose Ø | | |
| Set of cable inputs | □ standard | | | | | □ per request | | | | |
| Cable outer diameter Number of cable inputs | mm, pc, Type □ armor □ in pipe  mm, pc, Type □ armor □ in pipe | | | | | | | | | |
| Remote control unit (IR) within scope of supply | □ yes | | | | | □ no | | | | |
| Required (pcs.) |  | | | | | | | | | |
| Hydrogen sulfide content exceeds 3 mg/m3 | □ yes □ no | | Fire proof | | | | | | □ yes □ no | |
| Coating parameters |  | | | | | | | | | |
| RAL color code |  | | RAL color code of backup wheel | | | | | |  | |
| Additional conditions |  | | | | | | | | | |
| **3. start-up required** | | | | □ yes | | | □ no | | | |
| **4. staff training required** | | | | □ yes | | | □ no | | | |