**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

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| **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**

[www.npptec.ru](http://www.npptec.ru/) / рэмтэк.рф

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| **2. Electric drive parameters** |
| Supply voltage | □ 380 V, 50 Hz | □ 220 V, 50 Hz | □ 220 V, 50 Hz380 V, 50 Hz | □ other V, Hz |
| Required torque (force)at electric drive output arm? Nm (N) |  | Rate of max. torque of electric driveto max. design torque of the valve/gate control | К =  |
| Drive on the valve location | □ horizontal | □ vertical | □ other |
| Output arm rotationof 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 isolationof the drive from valve | □ yes | □ no |
| Electronic control unit | □ М | □ SThyristor reverse converter | □ VFrequency reverse converter |
| Connection diagram code (if available) |  |
| Field bus control | □ RS-485Modbus RTU | □ RS-485Profibus 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 |