CHECK LIST

**Name of the facility \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Customer (design organization) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Initial data for electric drive selection**

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| **1. Valves parameters** |
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| Valves type: |  Wedge gate valve |  Sliding shutter |  Valve  |  Ball valve |  Butterfly valve |  Other\_\_\_\_\_\_\_\_\_\_ |
| Valves designation: |  | Year of manufacture: |  |
| Valves manufacturer: |  |
| Maximum permissible pressure, MPa: |  | DN,mm: |  | Operating pressure, MPa: |  |
| Maximal pressure fall, MPa: |  |
| Connection dimensions of flanges for electric drive installation: |  A |  B |  C |  D |  E | Other: \_\_\_\_\_\_\_\_\_\_ |
| Availability of pre-gearbox **(for ball valve):** |  No |  Yes | Gear ratio including efficiency factor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Maximal torque on spindle, Мtravel/Мbreak-down./Мseparation, Nm: | Open | Closed |
| Мtravel: | Мbreak-down: | Мseparation: | Мtravel: | Мbreak-down: | Мseparation: |
| Maximal force on rod N,Ftravel/ Fbreak-down/ Fseparation **(for valve):** | Open | Closed |
| Ftravel: | Fbreak-down: | Fseparation: | Ftravel: | Fbreak-down: | Fseparation: |
| Turning number of loading nut **(for shutters):** |  | Valves spindle travel, mm**(for shutters):** |  |
| Operating range, degree. **(for shutters and ball valve):** |  45° |  90° |  180° |  Other\_\_\_\_\_\_\_\_\_° |
| Maximal travel of spindle, mm **(for valve):** |  |
| Minimal closing time: |  sec. | Maximal closing time: |  sec. |
| Electric drive position on valves: |  top |  bottom |  side |
|  |
| **2. Electric drive parameters** |
|  |
| Operating voltage:  |  380V, 50 Hz |  220 V, 50 Hz |  220 V, 50 Hz 380 V, 50 Hz |
| Necessary torque (force) on electric drive output element, Nm (N): |  |
| Method of drive fitting on valves: |  horizontal |  vertical |  other |
| Rotation frequency of electric drives output shaft, rpm**(for shutters)**: |  | Travel speed of output element, mm/s**(for valve)**: |  |
| Approximate number of starts per hour/day/month: |  |
| Operation mode: |  open/close |  control |
| Body protection type: |  IP 54 |  IP 67 |
| Explosion protection class: |  2ExdIIBT3 |  1ExdIIBT4 |  other |
| Ambient environ. conditions:  | - 50 °C … + 40 °C | - 50 °C … + 50 °C |  -60 °C … +50°C |
| Electric control unit design type: |  M |  S |  V |
| Control via fieldbus: |  CAN |  RS-485 |  not required |  other |
| Voltage of signal circuit switching: |   24 VDC |   220 VAC |
| Availability of current input 4-20 mA: |   yes |   no |
| Availability of current output 4-20 mA: |   yes |   no |
| Necessity of PID control of process parameter: |   yes |   no |
| Emergency situations recording: |   yes, last 32 situations |   Archive with time mark in history module for the last 500 situations |
| Power cable type: |  armored cable | cable laid in the pipe |
| Control cable type: | armored cable |  cable laid in the pipe |
| Necessity for the remote control via IR channel : |   yes |   no |
| Necessity (pcs.): |  |
| **Additional terms:**   |
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| **3. Necessity of electric drive placing in operation:** |  yes |  no |
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# Organization name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# The check list is completed by (Full name, job position):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Contact phone/fax (E-mail): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_