

Control Valve



ARTES Valve & Service GmbH
Parkallee 7 - 16727 Velten
GERMANY

A MEMBER OF THE ARCA FLOW GROUP

| | | | | | | | |
|----|---|---|------------------------|---------------------|--|-------------------------|---------------------|
| 1 | Customer: | Richard Kablitz GmbH | ARTES-ref.-no.: | | 5504246 | | |
| 2 | Plant: | Bihov | Pos.: | | 3 | | |
| 3 | Location: | quick drain control valve | Qty.: | | 1 | | |
| 4 | TAG No.: | 1 HAD10 AA001 | S/N: | | 3168065.1 | | |
| 5 | Pipe - Connection Data | | Inlet | | | Outlet | |
| 6 | Dimensions | ØD [mm] x s [mm] | 60,3 | x | 3,2 | 60,3 | x 3,2 |
| 7 | Material | | ... | | ... | | |
| 8 | Welding Connection | ØD [mm] x s [mm] | 61,9 | x | 4,0 | 61,9 | x 4,0 |
| 9 | Flange Connection | | -- | | -- | | |
| 10 | Valve - Design | | Inlet | | | Outlet | |
| 11 | Nominal Size | DN / NPS | 50 | | | 50 | |
| 12 | Nominal Pressure | PN / class | -- | | | -- | |
| 13 | Design Pressure | bar(g) | 102 | | | 102 | |
| 14 | Design Temperature | °C | 314 | | | 314 | |
| 15 | Material | | 1.0460 (P250GH, C22.8) | | | 1.0460 (P250GH, C22.8) | |
| 16 | Operation Data | | Loading Case | Loading Case | Loading Case | Loading Case | Loading Case |
| 17 | Medium : | Water/Steam | 1 | 2 | 3 | 4 | 5 |
| 18 | Phase | | water | water | water | | |
| 19 | Flowrate | t/h | 0,41 | 2,07 | 6,90 | | |
| 20 | Temperature, Inlet | °C | 20,00 | 305,00 | 305,00 | | |
| 21 | Pressure, Inlet | barG | 0,20 | 91,20 | 91,20 | | |
| 22 | Pressure, Outlet | barG | 0,00 | 1,80 | 8,20 | | |
| 23 | kvs | m³/h | 0,92 | 0,57 | 1,89 | | |
| 24 | Flow Speed, Outlet | m/s | 0,05 | 61,8 | 55,3 | | |
| 25 | Type Of Valve Control Ball Valve Type W | | | | | | |
| 26 | Valve Parameter | | | Material | | | |
| 27 | Seat Diameter: | 25 | mm | Body: | 1.0460 (P250GH, C22.8) | | |
| 28 | Pressure Reduction Steps, controlled: | 1 | | Seating: | 1.4122 (X39CrMo17-1), metal sealing | | |
| 29 | Pressure Reduction Steps, fix: | 0 | | Ball: | 1.4122 (X39CrMo17-1), metal sealing | | |
| 30 | kvs | 2,25 | m³/h | Control disc: | 1.4122 (X39CrMo17-1), hardened | | |
| 31 | Control Characteristic: | linear | | Seals: | Graphite | | |
| 32 | max. Dp für Actuator: | 102 | bar | | | | |
| 33 | Installation Length: | 190 | mm | | | | |
| 34 | | | | | | | |
| 35 | Design / Inspection | | | | | Final Inspection | |
| 36 | | | | | Confirmation acc. to DIN EN 3.1 | | |
| 37 | Requirements acc. to: | EN 12952 | | 10204 | | | |
| 38 | Leakage Class: | 0,01% of kvs-Value | | | | | |
| 39 | | | | | | | |
| 40 | Actuator | electric | | | | | 3168047 |
| 41 | Type: | auma SAR07.6 & GS63.3 & AC01.2 | | | | | |
| 42 | | U = 400V / 50Hz / 3ph | | | | | |
| 43 | | terminal plan: TPA 00R1AA-0A1-000, TPC A-1B1-1C2-A000 | | | | | |
| 44 | | positioning time: ca. 35 sec. / 90° | | | | | |
| 45 | | | | | | | |
| 46 | Actuatoradaption: | EN ISO 5211 - F10 - square 17 mm | | | | | |
| 47 | Remarks | | | | | | |
| 48 | ATTENTION! | | | | | | |
| 49 | - Loading Case 2 & 3 - FLASHING | | | | | | |
| 50 | | | | | | | |
| 51 | | | | | | | |
| 52 | - Loading Case 2 & 3 - Temperature changed (phase - liquid) | | | | | | |
| 53 | Revision | 0 | 1 | 2 | 3 | 4 | 5 |
| 54 | Date: | 11.06.2021 | 11.10.2021 | | | | |
| 55 | Prepared: | F. Lange | P. Schüler | | | | |
| 56 | Checked: | P. Schüler | R. Feldmann | | | | |