

Control Valve



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A MEMBER OF THE ARCA FLOW GROUP

| | | | | | | | |
|----|---|----------------------------------|---------------------|---------------------|--|--|---------------------|
| 1 | Customer: | ARTES-ref.-no.: | | 5504246 | | | |
| 2 | Plant: | Pos.: | | 2 | | | |
| 3 | Location: desalting control valve | Qty.: | | 1 | | | |
| 4 | TAG No.: 1 LCQ10 AA001 | S/N: | | 3168064.1 | | | |
| 5 | Pipe - Connection Data | Inlet | | | Outlet | | |
| 6 | Dimensions ØD [mm] x s [mm] | 48,3 | x | 3,6 | 48,3 | x | 3,6 |
| 7 | Material | ... | | | ... | | |
| 8 | Welding Connection ØD [mm] x s [mm] | 48,3 | x | 3,6 | 48,3 | x | 3,6 |
| 9 | Flange Connection | -- | | | -- | | |
| 10 | Valve - Design | Inlet | | | Outlet | | |
| 11 | Nominal Size DN / NPS | 40 | | | 40 | | |
| 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 | Loading Case |
| 17 | Medium : Water/Steam | 1 | 2 | 3 | 4 | 5 | 6 |
| 18 | Phase | water | water | | | | |
| 19 | Flowrate t/h | 0,46 | 1,06 | | | | |
| 20 | Temperature, Inlet °C | 305,00 | 305,00 | | | | |
| 21 | Pressure, Inlet barG | 91,20 | 91,20 | | | | |
| 22 | Pressure, Outlet barG | 4,00 | 5,00 | | | | |
| 23 | kvs m³/h | 0,13 | 0,29 | | | | |
| 24 | Flow Speed, Outlet m/s | 12,6 | 23,6 | | | | |
| 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 0,40 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 1 & 2 - FLASHING | | | | | | |
| 50 | | | | | | | |
| 51 | | | | | | | |
| 52 | - Loading Case 1 & 2 - 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 | | | | |