

Control Valve



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A MEMBER OF THE ARCA FLOW GROUP

| | | | | | | | |
|----|--|--|--|---------------------|---------------------|--|---------------------|
| 1 | Customer: | Richard Kablitz GmbH | ARTES-ref.-no.: | | 5504246 | | |
| 2 | Plant: | Bihov | Pos.: | | 9 | | |
| 3 | Location: | control valve BOP | Qty.: | | 1 | | |
| 4 | TAG No.: | 1 LBS11 AA001 | S/N: | | 3168004.1 | | |
| 5 | Pipe - Connection Data | | Inlet | | | Outlet | |
| 6 | Dimensions | ØD [mm] x s [mm] | 610,0 | x | 8,8 | 610,0 | x 8,8 |
| 7 | Material | | ... | | | ... | |
| 8 | Welding Connection | ØD [mm] x s [mm] | 610,0 | x | 8,8 | 610,0 | x 8,8 |
| 9 | Flange Connection | | -- | | | -- | |
| 10 | Valve - Design | | Inlet | | | Outlet | |
| 11 | Nominal Size | DN / NPS | 600 | | | 600 | |
| 12 | Nominal Pressure | PN / class | -- | | | -- | |
| 13 | Design Pressure | bar(g) | 5 | | | 5 | |
| 14 | Design Temperature | °C | 150 | | | 150 | |
| 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 6 |
| 18 | Phase | | steam | steam | steam | | |
| 19 | Flowrate | t/h | 33,57 | 29,95 | 5,16 | | |
| 20 | Temperature, Inlet | °C | 132,40 | 132,40 | 132,40 | | |
| 21 | Pressure, Inlet | barA | 2,50 | 2,50 | 2,50 | | |
| 22 | Pressure, Outlet | barA | 0,85 | 0,85 | 0,85 | | |
| 23 | kv | m³/h | 1058 | 942 | 161 | | |
| 24 | Flow Speed, Outlet | m/s | 72,5 | 64,6 | 11,1 | | |
| 25 | Sound Pressure Level | dB(A) | 89 | 88 | 80 | | |
| 26 | Type Of Valve Control Ball Valve Type GW | | | | | | |
| 27 | Valve Parameter | | | Material | | | |
| 28 | Seat Diameter: | 350 mm | Body: 1.0460 (P250GH, C22.8) | | | | |
| 29 | Pressure Reduction Steps, controlled: | 1 | Seating: 1.4122 (X39CrMo17-1), metal sealing | | | | |
| 30 | Pressure Reduction Steps, fix: | 0 | Ball: 1.4122 (X39CrMo17-1), metal sealing | | | | |
| 31 | kvs | 1200 m³/h | Control disc: 1.0460 (P250GH, C22.8) | | | | |
| 32 | Control Characteristic: | equal perc. mod. | Seals: O-Rings, EPDM perox. | | | | |
| 33 | max. Dp für Actuator: | 5 bar | | | | | |
| 34 | Installation Length: | 1050 mm | | | | | |
| 35 | | | | | | | |
| 36 | Design / Inspection | | | | | Final Inspection | |
| 37 | | | | | | Confirmation acc. to DIN EN 3.1 | |
| 38 | Requirements acc. to: | EN 12952 | 10204 | | | | |
| 39 | Leakage Class: | 0,01% of kvs-Value | | | | | |
| 40 | | | | | | | |
| 41 | Actuator | electric | | | | | 3167991 |
| 42 | Type: | auma SAR10.2 & GS125.3 & AC01.2 | | | | | |
| 43 | | U = 400V / 50Hz / 3ph | | | | | |
| 44 | | terminal plan: TPA 00R100-0I1-00, TPC A-1B1-1C2-A000 | | | | | |
| 45 | | positioning time: ca. 30 sec. / 90° | | | | | |
| 46 | | | | | | | |
| 47 | Actuatoradaption: | EN ISO 5211 - F25 - square 75 mm | | | | | |
| 48 | Remarks | | | | | | |
| 49 | | | | | | | |
| 50 | | | | | | | |
| 51 | | | | | | | |
| 52 | | | | | | | |
| 53 | Calculation - Sound Pressure Level with 150 mm Sound Insulation! | | | | | | |
| 54 | Revision | 0 | 1 | 2 | 3 | 4 | 5 6 |
| 55 | Date: | 11.06.2021 | 11.10.2021 | | | | |
| 56 | Prepared: | F. Lange | P. Schüler | | | | |
| 57 | Checked: | P. Schüler | R. Feldmann | | | | |