

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.: | 8 | | | | | | | | | | | | | | |
| 3 | Location: | 3-Way valve | Qty.: | 1 | | | | | | | | | | | | | | |
| 4 | TAG No.: | 1 LAB40 AA001 | S/N: | 3168070.1 | | | | | | | | | | | | | | |
| 5 | Pipe - Connection Data | | Connection 1 | Connection 2 | Connection 3 | | | | | | | | | | | | | |
| 6 | Dimensions | ØD [mm] x s [mm] | 114,3 x 8,0 | 168,3 x 12,5 | 168,3 x 12,5 | | | | | | | | | | | | | |
| 7 | Material | | P265GH | P265GH | P265GH | | | | | | | | | | | | | |
| 8 | Welding Connection | ØD [mm] x s [mm] | 118,3 x 10,0 | 170,3 x 13,5 | 170,3 x 13,5 | | | | | | | | | | | | | |
| 9 | Flange Connection | | -- | -- | -- | | | | | | | | | | | | | |
| 10 | Valve - Design | | Connection 1 | Connection 2 | Connection 3 | | | | | | | | | | | | | |
| 11 | Nominal Size | DN / NPS | 100 | 150 | 150 | | | | | | | | | | | | | |
| 12 | Nominal Pressure | PN / class | -- | -- | -- | | | | | | | | | | | | | |
| 13 | Design Pressure | bar(g) | 136 | 136 | 136 | | | | | | | | | | | | | |
| 14 | Design Temperature | °C | 314 | 314 | 314 | | | | | | | | | | | | | |
| 15 | Material | | 1.5415 | 1.5415 | 1.5415 | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | |
| 17 | Operation Data | | Loading Case 1 | Loading Case 2 | Loading Case 3 | Loading Case 4 | Loading Case 5 | Loading Case 6 | Loading Case 7 | Loading Case 8 | | | | | | | | |
| 18 | Medium: | Water/Steam | Outlet 1 | Outlet 2 | Outlet 1 | Outlet 2 | Outlet 1 | Outlet 2 | Outlet 1 | Outlet 2 | Outlet 1 | Outlet 2 | Outlet 1 | Outlet 2 | Outlet 1 | Outlet 2 | | |
| 19 | Flowrate | t/h | 0,00 | 15,00 | 2,50 | 43,50 | 12,96 | 31,04 | 4,68 | 39,32 | 28,80 | 15,20 | 0,00 | 66,88 | | | | |
| 20 | Temperature, Inlet | °C | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | | | | |
| 21 | Pressure, Inlet | barG | 65,80 | 65,80 | 65,80 | 65,80 | 94,00 | 94,00 | 94,00 | 94,00 | 94,00 | 94,00 | 94,00 | 94,00 | | | | |
| 22 | Pressure, Outlet | barG | 65,60 | 65,50 | 65,60 | 65,20 | 93,80 | 93,40 | 93,70 | 93,60 | 93,60 | 93,70 | 93,80 | 93,40 | | | | |
| 23 | | | | | | | | | | | | | | | | | | |
| 24 | K _V value | m ³ /h | - | 28,35 | 5,74 | 59,88 | 30,01 | 51,80 | 8,77 | 66,85 | 47,86 | 24,80 | - | 97,47 | | | | |
| 25 | Flow Speed, Outlet | m/s | - | - | - | - | - | - | - | - | - | - | - | 0,71 | | | | |
| 26 | Type Of Valve | | 3-Way Valve - Distributor | | | | | | | | | | | | | | | |
| 27 | Material | | | | | | | | Valve Parameter | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | |
| 29 | Body: | 1.5415 | | | | | | | Seat Diameter: | | | | | | | | 65 | mm |
| 30 | Stem: | 1.4122 | | | | | | | K _{Vs} Value: | | | | | | | | 160 | m ³ /h |
| 31 | Seat: | 1.5415 | | | | | | | max. Δp Actuator: | | | | | | | | 5 | bar |
| 32 | | | | | | | | | Installation Length:: | | | | | | | | 400/200 | mm |
| 33 | | | | | | | | | | | | | | | | | | |
| 34 | Seals: | Graphite | | | | | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | | | | | | | |
| 37 | Design / Inspection | | | | | | | | | | | | | | | | | |
| 38 | | | Requirements acc. to: | | | | | | EN 12952 | | | | | | | | | |
| 39 | | | Leakage Class: | | | | | | 1,5% of Kvs-Value | | | | | | | | | |
| 40 | Final Inspection Confirmation acc. to DIN EN 10204 | | 3.1 | | | | | | | | | | | | | | | |
| 41 | | | | | | | | | | | | | | | | | | |
| 42 | Actuator | pneumatic | | | | | | | | | | | | | | 3168049 | | |
| 43 | Type: | ProtACT PR263S.10.090.14S36.PRH, single-acting, spring closes | | | | | | | | | | | | | | | | |
| 44 | | Positioner: Siemens Sipart PS2 - 6DR5011-0NG21-0AA1, incl. Iy-Module for position feedback (4 ... 20mA) | | | | | | | | | | | | | | | | |
| 45 | | Type: 6DR4004-8J; incl. limit transmitter SIA-Module; inductive limit switches; incl.gauge block made of plastic | | | | | | | | | | | | | | | | |
| 46 | | aluminium block, filter regulator SMC AW30-F02G-B 1/4" incl. pressure gauge | | | | | | | | | | | | | | | | |
| 47 | | completely piped in stainless steel, air supply: 5,0 bar(g) | | | | | | | | | | | | | | | | |
| 48 | Remarks | | | | | | | | | | | | | | | | | |
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| 53 | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | |