

## Series F2202/04.. - F2209/04..

The flanged valve of the 22 series in the control type direct and externally controlled requires compressed air between 4-8bar for switching. The spring-loaded piston actuator is pressurised with compressed air and directly lifts the valve disc from the seat. The valve is closed by spring force. The robust design has fast reaction times with high positioning forces of spring and control pressure.

For more information follow this link:

<https://www.buschjostventile.de/en/products/F-2202-04-F-2209-04/details/F2207-0404-7058-EN?pressureRangeld=173>

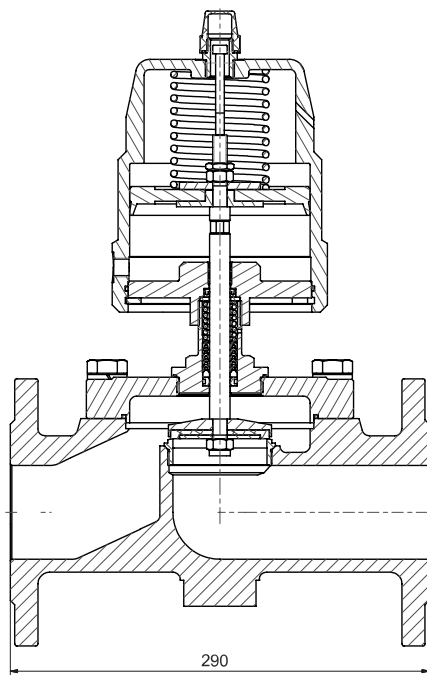


Image representation corresponds only to the valve design

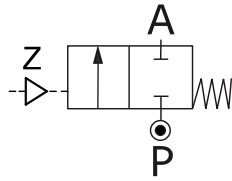
## Valve F2207/0404/7058-EN

| Version                                             | F  |                                                                                   |
|-----------------------------------------------------|----|-----------------------------------------------------------------------------------|
| Type of valve                                       | 22 | Seat Valve, pneum. direct                                                         |
| Connection type, valve seat                         | 07 | DN65, 65mm                                                                        |
| Kv-value ( $\Delta p = 1 \text{ bar H}_2\text{O}$ ) |    | 71 m <sup>3</sup> /h                                                              |
| Housing                                             | 04 | EN-GJL250 grey cast                                                               |
| Sealing                                             | 04 | PTFE                                                                              |
| Function                                            | 7  | CLOSED with spring                                                                |
| Design                                              | 0  | straight seat, actuator aluminium                                                 |
| Actuator size                                       | 58 | ø80 soft closing                                                                  |
| Actuator volume                                     |    | 260 cm <sup>3</sup>                                                               |
| Valve option                                        | EN | Sensor inductive, 1-fold                                                          |
| System pressure                                     |    | 0 - 1 bar (the max. operating pressure requires a control pressure of min. 6 bar) |
| Control pressure                                    |    | 6 - 8 bar                                                                         |
| Temperature Medium                                  |    | from -40 °C to +200 °C                                                            |
| Temperature Environment                             |    | from -10 °C to +60 °C                                                             |
| Mounting position                                   |    | in any position                                                                   |
| Specific use case                                   |    | Closed system (includes open system)                                              |

## Drawing-Standard



## Switching position



in Ruhestellung zu  
normal closed

Fließrichtung festgelegt  
flow direction defined

## Additional information

|                       |    |                                                                                                                                             |
|-----------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------|
| Valve option          | EN | Sensor inductive, 1-fold                                                                                                                    |
| Description           |    | Inductive sensor for position indication   BJ standard, round M12x1.5, in the bracket, requires customer information whether OPEN or CLOSED |
| REACH-RoHS conformity |    | REACH yes   RoHS yes                                                                                                                        |
| Customs export        |    | Customs tariff number 84812090; Country of origin Germany; ECCN (US): N; AL: N                                                              |

## Additional information for valve option

### INDUCTIVE SENSOR -EN

M12x1 metal thread – flush – M12 connector



Ø M12 Flush M12 4 mm 4 x LED

- Inductive sensor
- High-quality metal thread M1
- For all standard applications
- M12 connector
- DC, 10 ... 30 V, NO, PNP
- Protection IP67
- Corrosion-resistant

#### TECHNICAL DATA

##### • Electrical data

|                     |                                       |
|---------------------|---------------------------------------|
| Electrical design   | DC PNP                                |
| Operating voltage   | 10 ... 30 V DC "supply class 2" cULus |
| Current consumption | < 10 mA (at 24 V DC)                  |
| Protection class    | III                                   |

##### • Outputs

|                             |               |
|-----------------------------|---------------|
| Output function             | normally open |
| Current rating              | 100 mA        |
| Voltage drop                | < 2.5 V       |
| Short-circuit protection    | yes, pulsed   |
| Reverse polarity protection | yes           |
| Overload protection         | yes           |
| Switching frequency         | 700 Hz        |

##### • Detection zone

|                              |                                                                                                |
|------------------------------|------------------------------------------------------------------------------------------------|
| Nominal sensing range (Sn)   | 4 mm, flush installation [f]                                                                   |
| Safe sensing range (Sa)      | 0 ... 3.24 mm                                                                                  |
| Correction factors for metal | mild steel = 1; stainless steel approx. 0.7; brass approx. 0.5; Al approx. 0.4; Cu approx. 0.3 |

##### • Environmental conditions

|                   |               |
|-------------------|---------------|
| Temperature range | -25 ... 70 °C |
| Protection rating | IP67          |

##### • Approvals / tests

|      |              |
|------|--------------|
| EMC  | EN 60947-5-2 |
| MTTF | 1642 years   |

##### • Mechanical data

|                   |                                     |
|-------------------|-------------------------------------|
| Housing materials | brass white bronze coated; PBT; PEI |
| Weight            | 0.03 kg                             |

##### • Display / operating elements

|                             |                                        |
|-----------------------------|----------------------------------------|
| Switching status indication | 4 x yellow LED, visible from all sides |
|-----------------------------|----------------------------------------|

##### • Electrical connection:

|  |                         |
|--|-------------------------|
|  | M12 connector - A-coded |
|  | gold-plated contacts    |

