

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/F2209-0402-7008-EN?pressureRangeld=182>

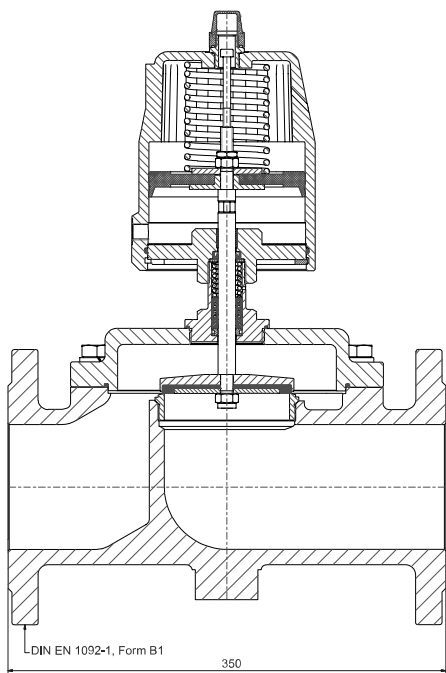


Image representation corresponds only to the valve design

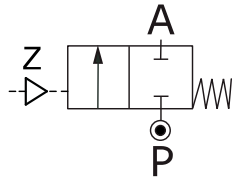
Valve F2209/0402/7008-EN

Version	F	
Type of valve	22	Seat Valve, pneum. direct
Connection type, valve seat	09	DN100, 100mm
Kv-value ($\Delta p = 1 \text{ bar H}_2\text{O}$)		173 m ³ /h
Housing	04	EN-GJL250 grey cast
Sealing	02	FKM
Function	7	CLOSED with spring
Design	0	straight seat, actuator aluminium
Actuator size	08	ø80
Actuator volume		260 cm ³
Valve option	EN	Sensor inductive, 1-fold
System pressure		0 - 2.5 bar (the max. operating pressure requires a control pressure of min. 6 bar)
Control pressure		6 - 8 bar
Temperature Medium		from -10 °C to +140 °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
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• Electrical connection:

	M12 connector - A-coded
	gold-plated contacts

