



Pneumatically operated 2/2-way angle seat valve CLASSIC

- Stainless steel or gunmetal housing with threaded, clamped or welded connection
- Long service life
- High flow rate
- Robust actuators with modular accessory program

Product variants described in the data sheet may differ from the product presentation and description.

Can be combined with

	Type 8644 AirLINE SP electropneumatic automation system	▶
	Type 8640 Modular valve island for pneumatics	▶
	Type 8697 Pneumatic control unit for decentralised automation of process valves ELEMENT	▶
	Type 7012 Direct-acting 3/2-way plunger valve	▶
	Type 6014 Plunger valve 3/2-way direct-acting	▶
	Type 8840 Modular process valve cluster – distributor and collector	▶

Type description

The externally piloted angle seat valve is operated with a single or double-acting piston actuator. The actuator is available in two different materials, depending on the ambient temperature. High flow rates are attained with the virtually straight flow path. The reliable self-adjusting packing gland provides high sealing integrity. These maintenance-free and robust valves can be retrofitted with a comprehensive range of accessories for position indication, stroke limitation or manual override.

1. General technical data

Product properties	
Dimensions	Further information can be found in chapter “6. Dimensions” on page 12.
Material	Further information can be found in chapter “5. Materials” on page 10.
Design	Angle seat valve
Nominal diameter (port connection)	DN 10...DN 80, NPS 3/8...NPS 3
Safety setting in case of power failure	Normally closed (control function A), normally open (control function B)
Flow direction	Flow to open (below seat), flow to close (above seat)
Performance data	
Operating pressure	0 bar(g)...25 bar(g), vacuum variants...- 0.9 bar(g) (option) (see “7.1. Fluidic data” on page 16)
Nominal pressure	PN 25 (DIN EN 1333), Class 150 (DIN EN 1759)
Pilot pressure	2...10 bar(g) (see “7.1. Fluidic data” on page 16)
Seat leakage	Leakage rate A (DIN EN 12266 - 1), seat seal PTFE and PEEK, test medium air
K _v value	1.6...140 m³/h (see “7.1. Fluidic data” on page 16)
Medium data	
Operating medium	Steam, water, neutral gases, alcohols, oils, fuels, hydraulic fluids, salt solutions, alkalis, organic solvents, oxygen and fuel gases of families I, II and III in accordance with the Gas Appliances Regulation (EU) 2016/426
Medium temperature	- 40...+ 230 °C (see “7.2. Operating limits” on page 23)
Viscosity	Max. 600 mm²/s
Control medium	Air, neutral gases
Product connections	
Port connection ¹⁾	
Threaded connection	G (DIN ISO 228 - 1) NPT (ASME B1.20.1) RC (ISO 7 - 1)
Welded connection	DIN EN ISO 1127 / ISO 4200 / DIN 11866 series B DIN 11850 - 2 / DIN 11866 series A ASME BPE / DIN 11866 series C SMS 3008
Clamp connection	DIN 32676 series B (pipe: ISO 4200) DIN 32676 series A (pipe: DIN 11850 - 2) ASME BPE
Pilot air port	
Actuator size Ø 40 (C)	Thread G 1/8
Actuator size Ø 50 (D)...125 (H)	Thread G 1/4
Approvals and conformities	
Further information can be found in chapter “4. Approvals and conformities” on page 8.	
Material certificate	2.2, 3.1
Environment and installation	
Ambient temperature	- 40...+ 140 °C (see “2. Product variants” on page 5)
Degree of protection	IP67
Installation position	As required, preferably with actuator upright

1.) Others are available on request.

2. Product variants

2.1. Stainless steel body with PA actuator



Product properties		
	Stainless steel body CF8	Stainless steel body CF3M
Nominal diameter (port connection)	DN 10...DN 65, NPS 3/8...NPS 2 1/2	DN 10...DN 80, NPS 3/8...NPS 3
Performance data		
Operating pressure	0...25 bar(g), vacuum up to -0.9 bar(g) (option) (see "7.1. Fluidic data" on page 16)	
Maximum pilot pressure		
Actuator size 40 (C), 50 (D), 63 (E), 80 (F)	10 bar(g)	
Actuator size 100 (G),125 (H)	7 bar(g)	
Media data		
Medium temperature	- 40...+ 185 °C	
Product connection		
Port connection	Threaded connection	Threaded, welded or clamp connection
Environment and installation		
Ambient temperature	- 40...+ 60 °C (see "7.2. Operating limits" on page 23)	

2.2. Stainless steel body with PPS actuator



Product properties		
	Stainless steel body CF8	Stainless steel body CF3M
Nominal diameter (port connection)	DN 10...DN 65, NPS 3/8...NPS 2 1/2	DN 10...DN 80, NPS 3/8...NPS 3
Performance data		
Operating pressure	0...25 bar(g), vacuum up to -0.9 bar(g) (option) (see "7.1. Fluidic data" on page 16)	
Maximum pilot pressure		
Actuator size 40 (C), 50 (D), 63 (E), 80 (F)	10 bar(g)	
Actuator size 100 (G), 125 (H)	7 bar(g)	
Media data		
Medium temperature	- 40...+ 185 °C	- 40...+ 230 °C
Product connection		
Port connection	Threaded connection	Threaded, welded or clamp connection
Environment and installation		
Ambient temperature	- 40...+ 140 °C (continuous operation...+ 130 °C) (see "7.2. Operating limits" on page 23)	