

Main applications

Downstream pressure control and isolation valve for SEMI and FPD processes if symmetrical gas flows are required

Optimal for demanding processes (e. g. uniformity)

Features

Body material:
aluminum or
aluminum, hard anodized

External pressure controller



Ordering information

Valve with stepper motor
(external pressure controller)

Nominal I. D.	320–450 mm (12"–18")
Ordering numbers	on request

Technical data

Leak rate ¹⁾ : valve body	
– Aluminum	1 · 10 ⁻⁹ mbar Is ⁻¹
– Aluminum, hard anodized	1 · 10 ⁻⁵ mbar Is ⁻¹
Leak rate ¹⁾ : valve seat	
– Aluminum	1 · 10 ⁻⁹ mbar Is ⁻¹
– Aluminum, hard anodized	1 · 10 ⁻⁴ mbar Is ⁻¹
Pressure range ¹⁾	
– Aluminum	1 · 10 ⁻⁸ mbar to 1.2 bar (abs)
– Aluminum, hard anodized	1 · 10 ⁻⁶ mbar to 1.2 bar (abs)
Differential pressure on the plate	
– Chamber side → plate	1200 mbar (valve closed) 10 mbar (during operation)
– Pump side → plate	10 mbar
Cycles until first service ²⁾	
– Pressure control	2 million
– Closing/opening	200 000
Temperature ²⁾	
– Valve body	≤ 120 °C
– Ambient	≤ 50 °C
Material	
– Flange, plate	EN AW-6082 (3.2315)
– Actuator shaft	AISI 316L (1.4404 or 1.4435)
– Bellows	AISI 633 (AM 350)
Seal: flange, plate	FKM (Viton®)
Feedthrough	bellows
Mounting position	actuator down

¹⁾ Unheated on delivery

²⁾ Maximum values: depending on operating conditions and sealing materials

Pressure controller: see pages 146–149