

ANGLE VALVE FOR CHEMISTRY, SERIES 27.1

The isolation angle valve for processes with aggressive and corrosive gases. These products are subject to the Non Proliferation Treaty (NPT).



Robust design

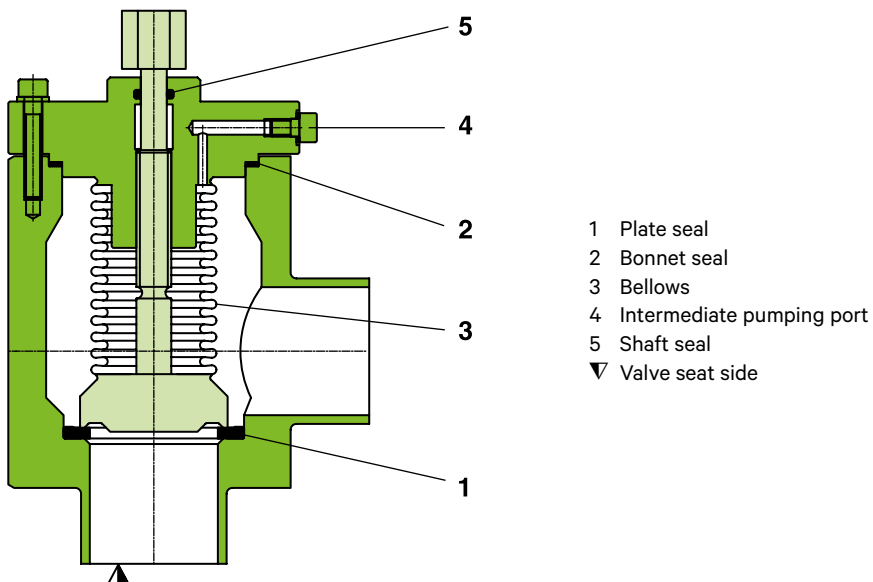
Reliable, for long term use

Maintenance-free

MAIN FEATURES

Sizes	DN 16 – 160 mm (½" – 6")
Actuators	manual with hexagon head pneumatic: single acting with closing spring (NC)
Body material	aluminum or stainless steel
Feedthrough	bellows with intermediate pumping port
Standard flanges	weld neck, ISO-KF/ISO-K, or customized

FUNCTIONAL PRINCIPLE



TECHNICAL DATA

Leak rate	Valve body Valve seat	<1·10 ⁻⁹ mbar ls ⁻¹ <1·10 ⁻⁷ mbar ls ⁻¹
Pressure range		1·10 ⁻⁷ mbar to 4 bar (abs)
Differential pressure on the plate		≤ 4 bar
Differential pressure at opening		≤ 1 bar
Cycles until first service		5000
Temperature ¹⁾	Valve body with copper bonnet seal Valve body with PFA bonnet seal Manual and pneumatic actuator	≤ 120 °C ≤ 100 °C ≤ 100 °C
Material	Aluminum valve body Stainless steel valve body Bellows	EN AW-5049 (3.3527), EN AW-6082 (3.2315) AISI 316L (1.4404, 1.4435) AISI 316L (1.4404), AISI 316Ti (1.4571)
Seal	Bonnet (aluminum body) Bonnet (stainless steel body) DN 16 – 40 DN 63 – 160 Plate	PFA copper PFA Tenic
Feedthrough		bellows with intermediarte pumping port
Mounting position		any
Solenoid valve		24 V DC (others on request)
Position indicator: contact rating	Voltage Current	5 – 50 V AC/DC 5 – 100 mA
Valve position indication		visual (mechanical)

¹⁾ Maximum values: depending on operating conditions and sealing materials.

ORDERING INFORMATION FOR STANDARD VALVES

Valve with manual actuator
hexagon head

DN		Ordering numbers					
mm	inch	weld neck		ISO-KF		ISO-K	
		aluminum	stainless steel	aluminum	stainless steel	aluminum	stainless steel
16	5/8	27124-RA02	27124-RE02	27124-KA02	27124-KE02	-	-
25	1	27128-RA02	27128-RE02	27128-KA02	27128-KE02	-	-
40	1½	27132-RA02	27132-RE02	27132-KA02	27132-KE02	-	-
63	2½	27136-RA02	27136-RE02	-	-	27136-QA02	27136-QE02
100	4	27140-RA02	27140-RE02	-	-	27140-QA02	27140-QE02
160	6	27144-RA02	27144-RE02	-	-	27144-QA02	27144-QE02

Valve with pneumatic actuator
single acting with closing spring (NC)
with solenoid valve
with position indicator

16	5/8	27124-RA41	27124-RE41	27124-KA41	27124-KE41	-	-
25	1	27128-RA41	27128-RE41	27128-KA41	27128-KE41	-	-
40	1½	27132-RA41	27132-RE41	27132-KA41	27132-KE41	-	-
63	2½	27136-RA41	27136-RE41	-	-	27136-QA41	27136-QE41
100	4	27140-RA41	27140-RE41	-	-	27140-QA41	27140-QE41
160	6	27144-RA41	27144-RE41	-	-	27144-QA41	27144-QE41

Specify control voltage

OPTIONS, CUSTOMIZED SOLUTIONS

- Manual actuator with torque handwheel
- Manual actuator with electrical position indicator
- Pneumatic actuator, single acting with opening spring (NO)
- Customer specified flanges
- Inline version
- Other options on request

DIMENSIONS

On request