

ANGLE CONTROL VALVE, SERIES 62.0

Downstream pressure control and isolation valve for processes with high temperatures and high pressures like LPCVD, ALD etc..



DN 50

DN 100

Integrated soft-start

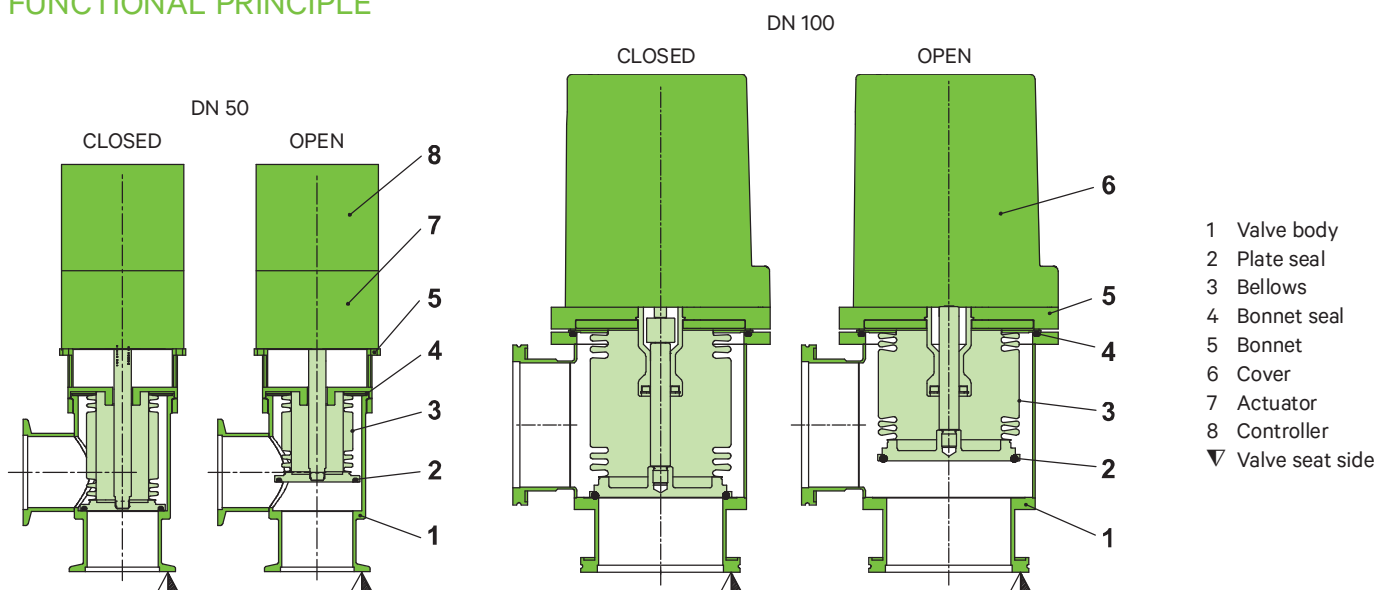
Excellent pressure control performance

Service port to connect a computer via USB and on-board Control Performance Analyzer (CPA) software

MAIN FEATURES

Sizes	DN 50, 100 mm (2", 4")
Actuator	linear drive with closed loop controlled stepper motor
Body material	stainless steel
Feedthrough	bellows
Standard flanges	DN 50: ISO-KF, DN 100: ISO-K

FUNCTIONAL PRINCIPLE



TECHNICAL DATA

Leak rate ¹⁾	Valve body	< 1·10 ⁻⁹ mbar ls ⁻¹
Pressure range ¹⁾		< 1·10 ⁻⁸ mbar to 1.2 bar (abs)
Differential pressure on the plate		≤ 1.1 bar
Cycles until first service ²⁾	Throttling DN 50	2 million
	DN 100	1 million
	Isolation DN 50	1 million
	DN 100	200 000
Temperature ²⁾	Valve body, plate, bellows	≤ 150 °C
	Ambient	max. 50 °C (≤ 35 °C recommended)
Material	Valve body, plate	AISI 316L (1.4404 or 1.4435)
	Bellows	AISI 316Ti (1.4571)
Seal	Bonnet, plate	FKM (Viton®)
Feedthrough		bellows
Mounting position		any

DN (nominal I. D.)		Conductance (molecular flow)	Minimum controllable conductance (molecular flow)	Max. differential pressure on the plate	Operating time for throttling	Typical closing or opening time	Weight	
mm	inch						kg	lbs
50	2	80	0.10	1.00	1.20	1.80	3.50	7.70
100	4	400	0.20	1.10	1.00	2.50	14.50	32.00

¹⁾ Unheated on delivery.

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

Technical data for pressure controller: see pages 184 – 189

OPTIONS, CUSTOMIZED SOLUTIONS

- Version for a temperature of 200 °C (DN 100 only)
- DN 40 and DN 80
- Valve body nickel-coated

SPARE PARTS

We can offer a wide variety of spare parts. Please contact us for details and an offer.

Thank you for specifying the fabrication number of the valve indicated on the identification tag when asking for spare parts.

ACCESSORIES

Flange connections for installation of the valve: see series 31 and 32

ORDERING INFORMATION

FOR STANDARD VALVES

Valve with external pressure controller and stepper motor

DN		Ordering numbers			
mm	inch	ISO-KF		ISO-K	
50	2	62034-KE	x	y	-
100	4	-			62040-QE x y

Controller configurations:

	Interface	Number of sensors
G = basic version	H = RS232	2
A = with SPS	E = Logic (analog/digital)	2
H = with PFO	Q = DeviceNet®	2
C = with SPS and PFO	F = Profibus	2
T = basic version with VC master	K = RS485	2
V = with SPS and VC master	X = EtherCAT	2
U = with PFO and VC master	S = VC slave (without interface)	
W = with SPS, PFO and VC master		

SPS = Sensor Power Supply
(±15 V DC power supply for sensor)

PFO = Power Failure Option
(valve closes / opens automatically at power failure)

VC = Valve Cluster
(for operating several valves synchronously)

Example: 62040-QEGE
= DN 100 valve, Logic interface, for 2 sensors

Pressure controller: see pages 184 – 189

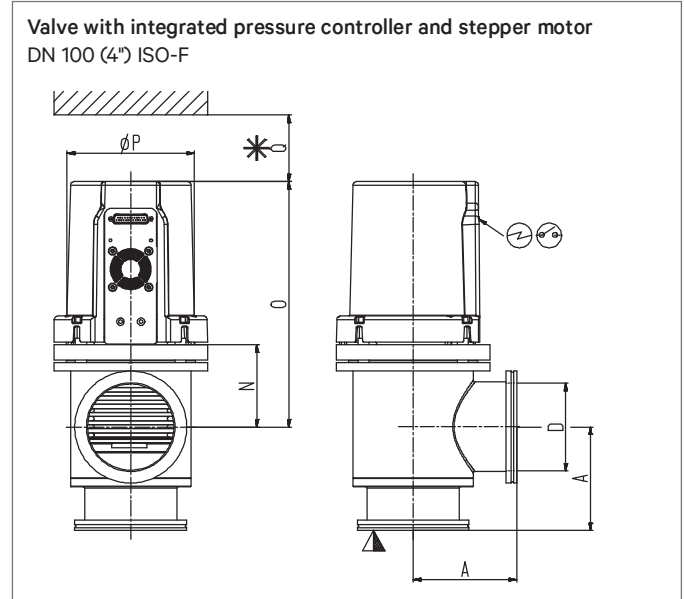
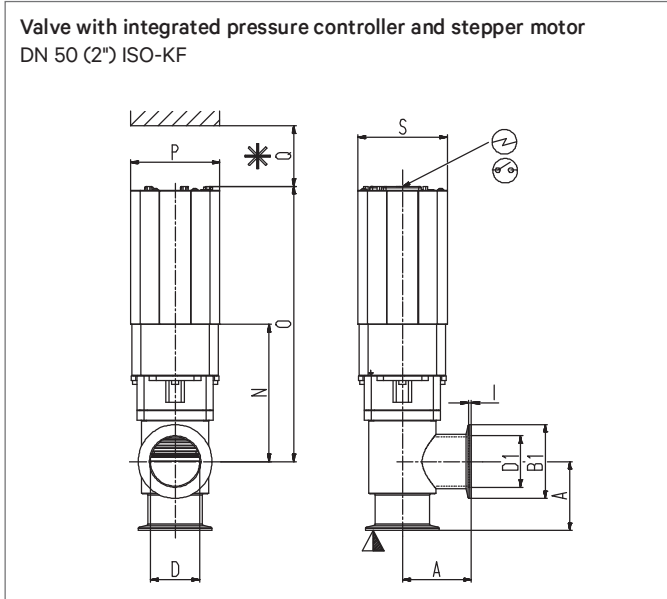
ORDERING INFORMATION

FOR VALVES WITH OPTIONS

Basic ordering number plus «-X»: -X to be specified

Example: 62040-QEGG-X, X = valve for 200 °C

DIMENSIONS



DN	mm inch	50 2	100 4
A	mm inch	70 2.76	120 4.72
B1	mm inch	74.90 2.95	-
D	mm inch	50 2	102 4.02
D1	mm inch	52.20 2.06	-
I	mm inch	2.90 0.12	-
N	mm inch	39 5.47	95 3.74
O	mm inch	280 11	285 11.22
P	mm inch	91 3.58	148 5.83
Q	mm inch	70 2.76	110 4.33
S	mm inch	91 3.58	-

- ▼ Valve seat side
- * Required for dismantling
- ⊕ Electrical connection

