

VENTING VALVE, SERIES 21.3

For controlled venting or closing of vacuum systems.



Automatic venting or closing in case of a power failure (2, 3)

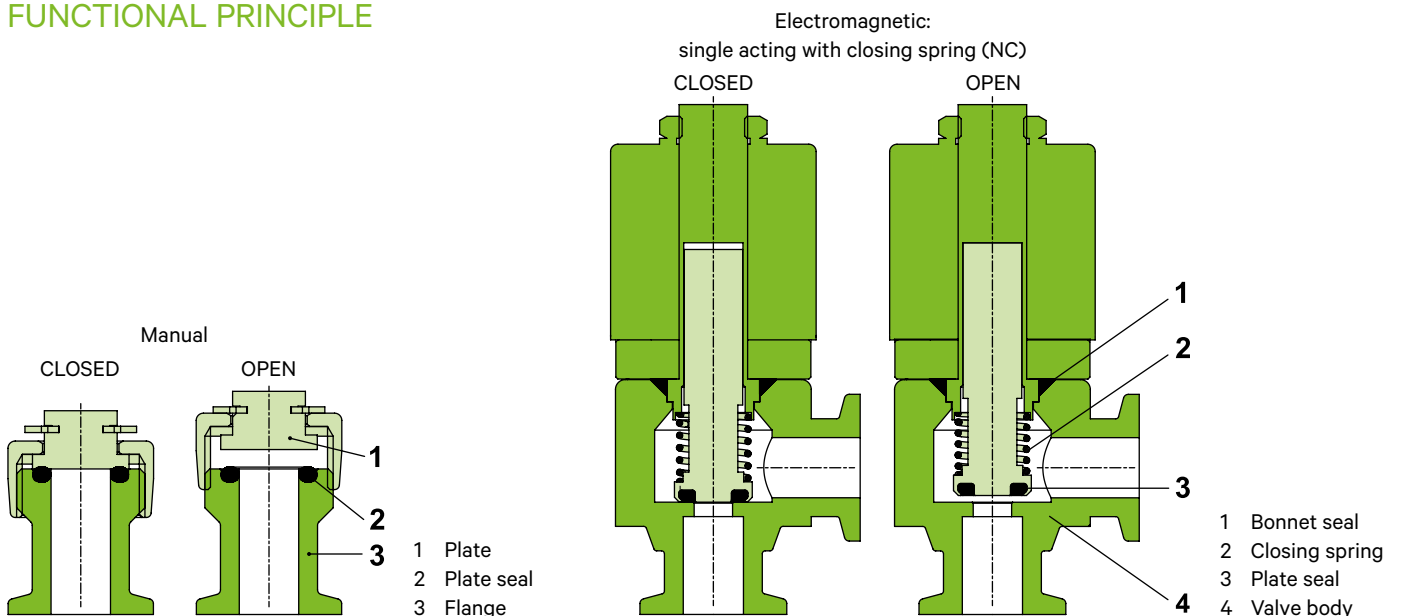
No vacuum feedthrough (3)

Long service life (1, 2, 3)

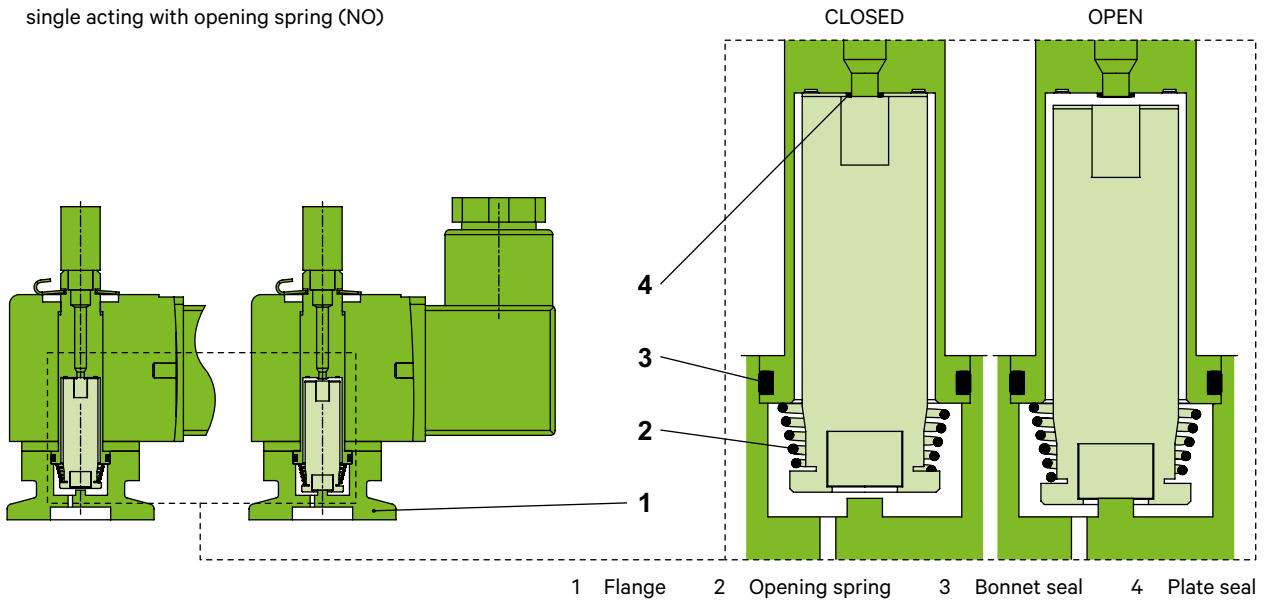
MAIN FEATURES

Size	DN 10 mm (3/8")
Actuators	manual electromagnetic: single acting with closing spring (NC) or opening spring (NO)
Body material	manual: aluminum and stainless steel electromagnetic: aluminum
Standard flanges	ISO-KF

FUNCTIONAL PRINCIPLE



Electromagnetic:
single acting with opening spring (NO)



TECHNICAL DATA

		MANUAL	ELECTROMAGNETIC with closing spring (NC)	ELECTROMAGNETIC with opening spring (NO)
Leak rate	Valve body, valve seat	$<1 \cdot 10^{-9}$ mbar ls ⁻¹	$<1 \cdot 10^{-9}$ mbar ls ⁻¹	$<1 \cdot 10^{-7}$ mbar ls ⁻¹
Pressure range		$1 \cdot 10^{-8}$ mbar to 1 bar (abs)	$1 \cdot 10^{-8}$ mbar to 1 bar (abs)	$1 \cdot 10^{-8}$ mbar to 10 bar (abs)
Differential pressure on the plate	In closing direction	–	10 mbar	–
	In opening direction	–	1 mbar	–
Differential pressure at opening	In closing direction	–	2 mbar ¹⁾	–
	In opening direction	–	1 mbar	–
Cycles until first service ²⁾		–	1.5 million	3 million
Temperature ³⁾	With aluminum body	0 – 80 °C	5 – 40 °C	5 – 50 °C
	With stainless steel body	0 – 120 °C	–	–
Material	Aluminum valve body	EN AW-6023 (3.0306)	EN AW-6082 (3.2315)	EN AW-6026
	Stainless steel valve body Plate: aluminum valve stainless steel valve	AISI 303 (1.4305) EN AW-6023 (3.0306) AISI 304 (1.4301)	–	–
Seal		FKM (Viton®)	FKM (Viton®)	FKM (Viton®)
Feedthrough		none	none	none
Mounting position		any	any	any
Power supply		–	200 – 240 V AC, 50/60 Hz 100 – 115 V AC, 50/60 Hz 24 V AC, 50/60 Hz 24 V DC	200 – 240 V AC, 50/60 Hz 100 – 115 V AC, 50/60 Hz 24 V DC
Venting time		50 l in 14 sec.	100 l in 30 sec.	50 l in 270 sec.
Weight	Aluminum valve	0.1 kg / 0.22 lbs	0.46 kg / 1.01 lbs	0.1 kg / 0.22 lbs
	Stainless steel valve	0.15 kg / 0.33 lbs	–	–

¹⁾ Opening above atmospheric pressure reduces the specified cycle life.
²⁾ Cycle life tested at room temperature.
³⁾ Maximum values: depending on operating conditions and sealing materials.

OPTIONS

- Various filters
- Various power supply voltages

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

ORDERING INFORMATION

FOR STANDARD VALVES

Valve with manual actuator

DN		Ordering numbers	
mm	inch	aluminum	stainless steel
10	3/8	21320-KA01	21320-KE01

Valve with electromagnetic actuator single acting with closing spring (NC)

DN		Ordering numbers
mm	inch	ISO-KF aluminum
10	3/8	21320-KA64

Valve with electromagnetic actuator single acting with opening spring (NO)

DN		Ordering numbers
mm	inch	ISO-KF aluminum
10	3/8	21320-KA66

ORDERING INFORMATION

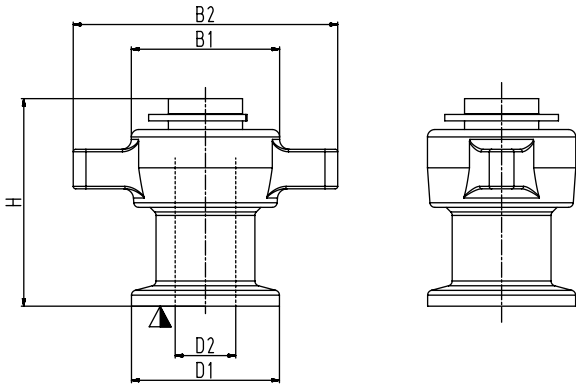
FOR VALVES WITH OPTIONS

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

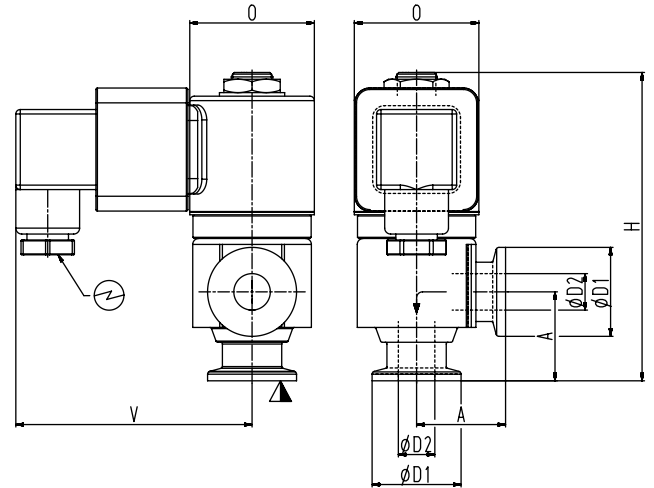
Example: 21320-KA64-X, X = power supply voltage ... V ... Hz

DIMENSIONS

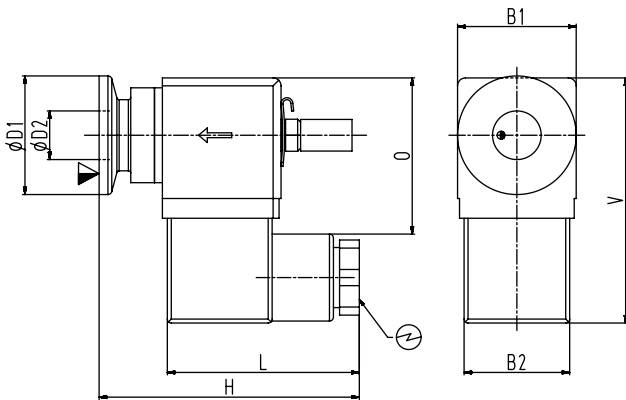
Valve with manual actuator
DN 10 (3/8") ISO-KF



Valve with electromagnetic actuator, single acting with closing spring (NC)
DN 10 (3/8") ISO-KF



Valve with electromagnetic actuator, single acting with opening spring (NO)
DN 10 (3/8") ISO-KF



		Manual	Electromagnetic	
			With closing spring (NC)	With opening spring (NO)
DN	mm inch	10 3/8	10 3/8	10 3/8
B1	mm inch	30 1.18	-	30 1.18
B2	mm inch	51 2	-	27 1.06
D1	mm inch	29.90 1.18	30 1.18	30 1.18
D2	mm inch	12.20 0.48	12.30 0.48	12.30 0.48
H	mm inch	42 1.77	105 4.13	27 1.06
L	mm inch	-	-	65.80 2.60
O	mm inch	-	42 1.89	39.50 1.56
V	mm inch	-	60 2.36	64 2.52

- ▼ Valve seat side
- ⊕ Electrical connection