



ORBINOX Knifegate valve Series: EX Type: 5412 Stainless steel Pneumatic operated Wafer type

Characteristics

Series: EX

Type: 5412

Norm: EN (DIN)

Housing construction: 1-part

Housing material: Stainless steel

Material quality: 1.4401

Connection: Wafer type

Operating principle: Double acting

Type of sealing: Uni-directional

Spindle material: AISI 430

Material bracket: Steel epoxy coating

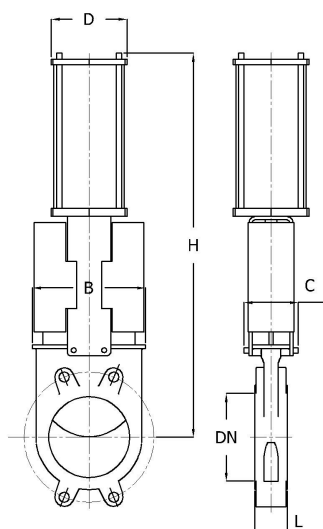
Actuator material: Aluminium (L2520)

Medium temperature: -10 / 120 °C

Application

- Recommended in: Chemical, Food & Beverages

Size table:



DN	B	C	D	H	L	Cord length	Air supply connection	Weight
	mm	mm	mm	mm	mm	cm		kg
DN50	119	100	115	412	40	24	1/4"	9
DN65	134	100	115	454	40	29	1/4"	10
DN80	149	100	115	497	50	34	1/4"	11
DN100	169	100	115	558	50	41	1/4"	14
DN125	180	100	140	632	50	49	1/4"	20
DN150	210	100	140	708	60	57	1/4"	25
DN200	262	119	175	872	60	72	1/4"	44
DN250	318	122	220	1042	70	88	3/8"	67
DN300	372	122	220	1192	70	104	3/8"	82

Pressure temperature table

Orifice	-10 < > 20 °C	80 °C	100 °C	150 °C	200 °C	250 °C	300 °C	350 °C	400 °C	450 °C	500 °C	550 °C
DN50 - DN250	10.0 bar	10.0 bar	7.5 bar	6.8 bar	6.0 bar	5.6 bar	5.2 bar	5.0 bar	4.7 bar	4.5 bar	4.4 bar	4.3 bar
DN300 DN400	6.0 bar	6.0 bar	4.5 bar	4.1 bar	3.6 bar	3.4 bar	3.1 bar	3.0 bar	2.8 bar	2.7 bar	2.6 bar	2.6 bar
DN450	5.0 bar	5.0 bar	3.8 bar	3.4 bar	3.0 bar	2.8 bar	2.6 bar	2.5 bar	2.4 bar	2.3 bar	2.2 bar	2.2 bar
DN500 DN600	4.0 bar	4.0 bar	3.0 bar	2.0 bar	2.4 bar	2.2 bar	2.1 bar	2.0 bar	1.9 bar	1.9 bar	1.8 bar	1.7 bar

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Maximum temperature table sealing			
Sealing material	Temperature ^{max}	Sealing material	Temperature ^{max}
EPDM	120 °C	Silicone	250 °C
NBR	120 °C	PTFE	250 °C
FKM	200 °C	Metall	550 °C

Nominal inner diameter	Pressure rating	Pressure rating flange	Face to Face norm	Face to Face length mm	Operation	Sealing	Plate material	Primary spindle seal material	Max. pressure at sliding plate bar	Article
DN50	PN10	PN10	Manufacturer standard	40	Pneumatic double acting	EPDM	1.4401	PTFE/EPDM	10	11813570
DN65	PN10	PN10	Manufacturer standard	40	Pneumatic double acting	EPDM	1.4401	PTFE/EPDM	10	11813571
DN80	PN10	PN10	Manufacturer standard	50	Pneumatic double acting	EPDM	1.4401	PTFE/EPDM	10	11813573
DN100	PN10	PN10	Manufacturer standard	50	Pneumatic double acting	EPDM	1.4401	PTFE/EPDM	10	11813575
DN125	PN10	PN10	Manufacturer standard	50	Pneumatic double acting	EPDM	1.4401	PTFE/EPDM	10	11813576
DN150	PN10	PN10	Manufacturer standard	60	Pneumatic double acting	EPDM	1.4401	PTFE/EPDM	10	11813578
DN200	PN10	PN10	Manufacturer standard	60	Pneumatic double acting	EPDM	1.4401	PTFE/EPDM	10	11813580
DN250	PN10	PN10	Manufacturer standard	70	Pneumatic double acting	EPDM	1.4401	PTFE/EPDM	10	11813582
DN300	PN6	PN10	Manufacturer standard	70	Pneumatic double acting	EPDM	1.4401	PTFE/EPDM	6	11813584

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