



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

Primary spindle seal material: PTFE/EPDM

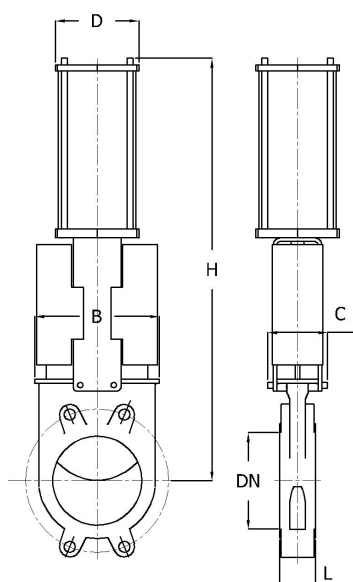
Material bracket: Steel epoxy coating

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
DN350	431	197	277	1387	96	120	3/8"	135
DN400	486	197	277	1541	100	136	3/8"	165
DN450	540	201	382	1710	106	151	1/2"	220
DN500	602	201	382	1873	110	167	1/2"	280
DN600	708	201	382	2178	110	197	1/2"	330

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	Actuator material	Max. pressure at sliding plate bar	Article
DN50	PN10	PN10	Manufacturer standard	40	Pneumatic double acting	EPDM	1.4401	Aluminium (L2520)	10	11813570
DN65	PN10	PN10	Manufacturer standard	40	Pneumatic double acting	EPDM	1.4401	Aluminium (L2520)	10	11813571
DN80	PN10	PN10	Manufacturer standard	50	Pneumatic double acting	EPDM	1.4401	Aluminium (L2520)	10	11813573
DN100	PN10	PN10	Manufacturer standard	50	Pneumatic double acting	EPDM	1.4401	Aluminium (L2520)	10	11813575
DN125	PN10	PN10	Manufacturer standard	50	Pneumatic double acting	EPDM	1.4401	Aluminium (L2520)	10	11813576
DN150	PN10	PN10	Manufacturer standard	60	Pneumatic double acting	EPDM	1.4401	Aluminium (L2520)	10	11813578
DN200	PN10	PN10	Manufacturer standard	60	Pneumatic double acting	EPDM	1.4401	Aluminium (L2520)	10	11813580
DN250	PN10	PN10	Manufacturer standard	70	Pneumatic double acting	EPDM	1.4401	Aluminium (L2520)	10	11813582
DN300	PN6	PN10	Manufacturer standard	70	Pneumatic double acting	EPDM	1.4401	Aluminium (L2520)	6	11813584
DN350	PN6	PN10	Manufacturer standard	96	Pneumatic double acting	EPDM	1.4401	Aluminium (L2520)	6	14334781
DN400	PN6	PN10	Manufacturer standard	100	Pneumatic double acting	EPDM	1.4401	Aluminium (L2520)	6	14262689
DN450	PN5	PN10	Manufacturer standard	106	Pneumatic double acting	EPDM	1.4401	Ductile cast iron	5	14399424
DN500	PN4	PN10	Manufacturer standard	110	Pneumatic double acting	EPDM	1.4401	Ductile cast iron	4	14399426
DN600	PN4	PN10	Manufacturer standard	110	Pneumatic double acting	EPDM	1.4401	Ductile cast iron	4	14399428

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