

Space saving due to direct mounting between DIN flanges / sealing surfaces



Body material

aluminum

Manual actuator

DN 50: toggle lever
DN 63 - 100: push rod

DN		Ordering numbers
mm	inch	
50	2	08234-FA06
63	2 1/2	08136-FA03
80	3	08138-FA03
100	4	08140-FA03

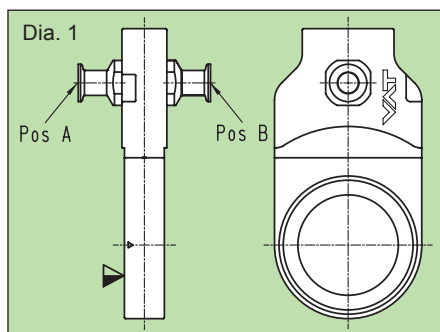
Pneumatic actuator

double acting
with position indicator
with solenoid

50	2	08234-FA44
63	2 1/2	08136-FA44
80	3	08138-FA44
100	4	08140-FA44

without position indicator, without solenoid: 08 . . . -FA14
with position indicator, without solenoid: 08 . . . -FA24

Options



▽ valve seat side

Actuator:

- Solenoid for impulse actuation:
actual valve position is maintained at power failure
- Solenoid separate, for external mounting
- Solenoid for 12, 48 VDC
24, 48, 100, 115, 200, 230 V 50 Hz
24, 100, 115, 200, 230 V 60 Hz

Valve:

- Port with seal made of VITON (diagram 1) for DN 63 - 100
for roughing (by-pass), venting or for gauges
(recommended port: ISO-KF16 for DN 63, ISO-KF25 for DN 80 and 100)

Ordering information for options:

Ordering No. of valve-X (e. g. 08140-FA44-X, X = port ISO-KF25 at position A)

Seal kit

Consisting of seals for flanges, gate and lower part of body
Ordering No.: see operating manual or price list

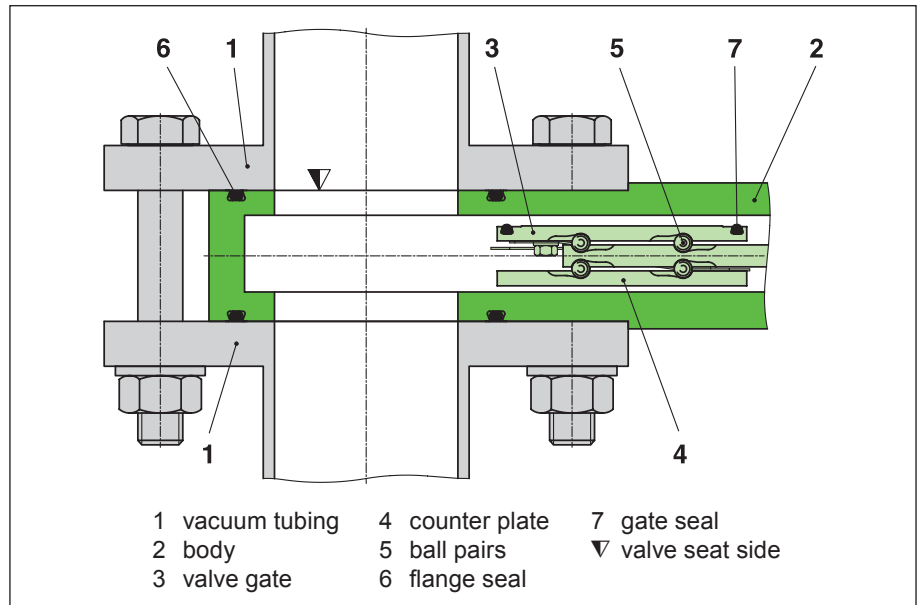
Sealing materials

Gate: VITON

Bonnet: VITON

Feedthrough

VITON / shaft feedthrough



Features

Flanges with DIN centering insert

VATLOCK configuration (see glossary)

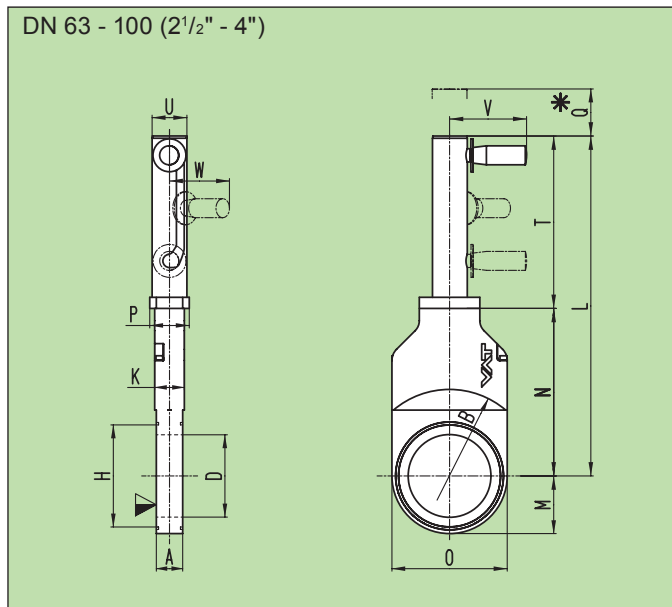
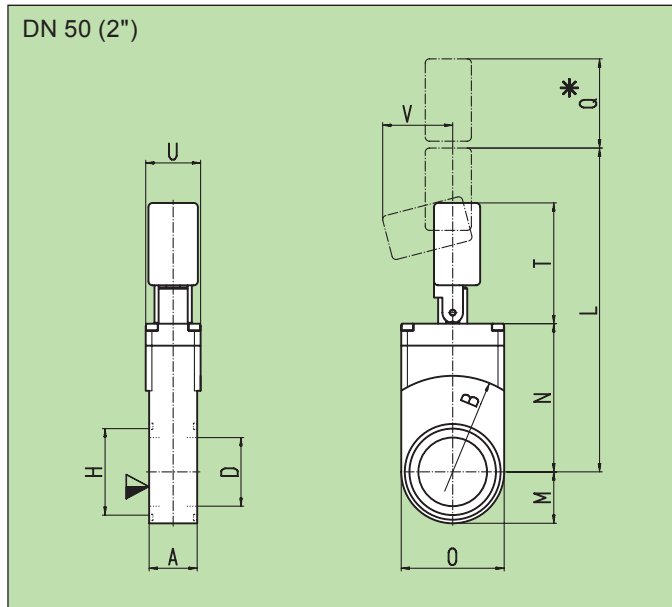
Technical data

Continued next page

Leak rate: body, valve seat	< 1 · 10 ⁻⁹ mbar ls ⁻¹
Pressure range	1 · 10 ⁻⁷ mbar to 1.6 bar (abs)
Differential pressure on the gate - DN 50 / 63 - 100	≤ 1 / ≤ 1.6 bar in either direction
Differential pressure at opening	≤ 30 mbar
Cycles until first service - DN 50 / 63 - 100	50000 / 200000
Temperature ¹⁾	
- Valve body DN 50 / 63 - 100	≤ 100°C / ≤ 120°C
- Manual actuator	≤ 80°C
- Pneumatic actuator	≤ 80°C
- Position indicator	≤ 80°C
- Solenoid	≤ 50°C
Material	
- Valve body DN 50 / 63 - 100	AlMgSi1 / AlMg4.5Mn
- Mechanism	AISI 304 (1.4301), AISI 301 (1.4310) AISI 420 (1.4034)
Seal	
- Bonnet	VITON
- Gate DN 50 / 63 - 100	VITON vulcanized / VITON
Mounting position	any
Solenoid	24 VDC, 5.4 W (others see «Options»)
Position indicator: contact rating	<u>DN 50</u> <u>DN 63 - 100</u>
- Voltage	≤ 50 VAC ≤ 250 VAC
- Current	≤ 0.5 A ≤ 2 A
- Power	max. 10 W
Valve position	visual (mechanical)

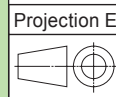
¹⁾ Maximum values: depending on operating conditions and sealing materials

Manual actuator



DN	mm	50	63	80	100
	inch	2	2 1/2	3	4
A	mm	35	32	32	32
	inch	1.38	1.26	1.26	1.26
B	mm	140	160	190	210
	inch	5.51	6.3	7.48	8.27
D	mm	50	65	80	100
	inch	1.97	2.56	3.15	3.94
H	mm	63	88	104	124
	inch	2.48	3.46	4.09	4.88
I.D. x d ¹⁾		63.09x3.53 2.48x0.139	88.49x3.53 3.49x0.139	104.37x3.53 4.11x0.139	123.42x3.53 4.86x0.139
K	mm	-	36	36	36
	inch	-	1.42	1.42	1.42
L	mm	240	329.5	363	413
	inch	9.45	12.97	14.29	16.26
M	mm	37.5	50	59	70
	inch	1.48	1.97	2.32	2.76
N	mm	108	155.5	173.5	203.5
	inch	4.25	6.12	6.83	8.01
O	mm	75	100	118	140
	inch	2.95	3.94	4.65	5.51
P	mm	-	48	48	48
	inch	-	1.89	1.89	1.89
Q	mm	65	25	25	25
	inch	2.56	0.98	0.98	0.98
T	mm	93	174	189.5	209.5
	inch	3.67	6.85	7.46	8.25
U	mm	40	43	43	43
	inch	1.57	1.69	1.69	1.69
V	mm	55	94	94	94
	inch	2.17	3.7	3.7	3.7
W	mm	-	75	75	75
	inch	-	2.95	2.95	2.95

¹⁾ dimensions of flange O-ring



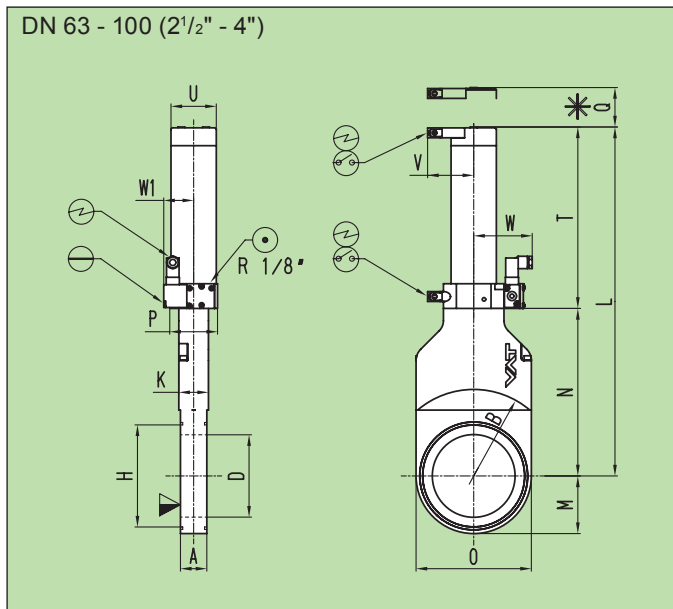
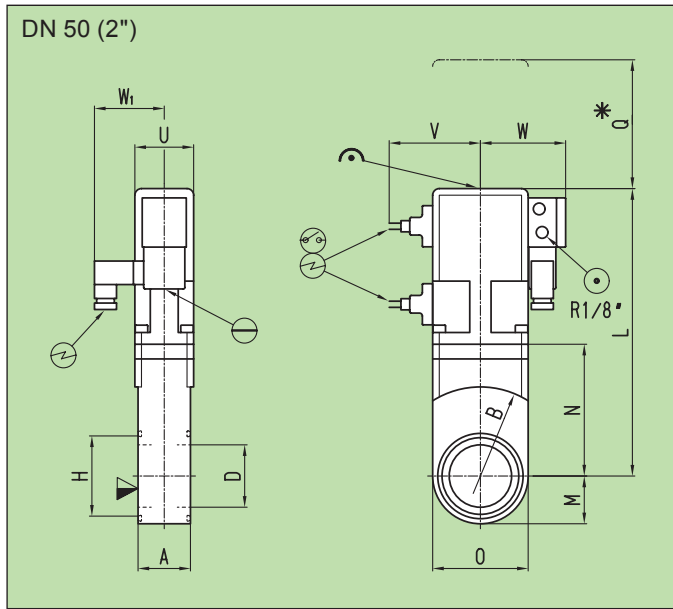
▽ valve seat side

* required for dismantling

Technical data

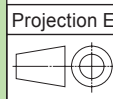
DN (nominal I. D.)		molecular flow conductance	manual				pneumatic				
			weight		compressed air pressure min. - max. overpressure		volume of air cylinder		closing or opening time	weight	
mm	inch	ls ⁻¹	kg	lbs	bar	psi	l	ft ³	s	kg	lbs
50	2	410	0.7	1.5	4.5 - 7	65 - 100	0.07	0.002	1.2	1.2	2.7
63	2 1/2	1000	1.5	3.3	4 - 7	55 - 100	0.16	0.0056	1.5	1.5	3.3
80	3	2000	2.3	5.1	4 - 7	55 - 100	0.2	0.0071	1.7	2.3	5.1
100	4	3800	3	6.6	4 - 7	55 - 100	0.22	0.0078	2	3	6.6

Pneumatic actuator



DN	mm inch	50 2	63 2 1/2	80 3	100 4
A	mm inch	35 1.38	32 1.26	32 1.26	32 1.26
B	mm inch	140 5.51	160 6.3	190 7.48	210 8.27
D	mm inch	50 1.97	65 2.56	80 3.15	100 3.94
H	mm inch	63 2.48	88 3.46	104 4.09	124 4.88
I.D. x d ¹⁾		63.09x3.53 2.48x0.139	88.49x3.53 3.49x0.139	104.37x3.53 4.11x0.139	123.42x3.53 4.86x0.139
K	mm inch	- -	36 1.42	36 1.42	36 1.42
L	mm inch	220 8.66	341.5 13.44	375 14.76	425 16.73
M	mm inch	37.5 1.48	50 1.97	59 2.32	70 2.76
N	mm inch	103 4.06	155.5 6.12	173.5 6.83	203.5 8.01
O	mm inch	75 2.95	100 3.94	118 4.65	140 5.51
P	mm inch	- -	58 2.28	58 2.28	58 2.28
Q	mm inch	65 2.56	25 0.98	25 0.98	25 0.98
T	mm inch	- -	186 7.32	201.5 7.93	221.5 8.72
U	mm inch	40 1.57	55 2.17	55 2.17	55 2.17
V	mm inch	65 2.56	56 2.2	56 2.2	56 2.2
W	mm inch	66 2.6	72 2.83	72 2.83	72 2.83
W1	mm inch	50 1.97	36.5 1.44	36.5 1.44	36.5 1.44

¹⁾ dimensions of flange O-ring



- ▼ valve seat side
- * required for dismantling
- ⊖ emergency operation
- ⊕ compressed air connection
- ⊕ electrical connection
- ⊕ position indicator
- ⊕ mechanical position indication