

## Main applications

For pumping and venting of HV systems

(For large gas flows we recommend series 24)



## Ordering information

**Valve with manual actuator**  
removable handwheel

	DN		Ordering numbers			
	mm	inch	Angle valve		Inline valve	
			aluminum	stainless steel	aluminum	stainless steel
ISO-KF	10	¾	–	26420-KE01	–	–
	16	⅝	26424-KA01	26424-KE01	26524-KA01	26524-KE01
	25	1	26428-KA01	26428-KE01	26528-KA01	26528-KE01
	40	1½	26432-KA01	26432-KE01	26532-KA01	26532-KE01
	50	2	26434-KA01	26434-KE01	26534-KA01	26534-KE01
ISO-K	63	2½	26436-QA01	26436-QE01	–	–
	80	3	26438-QA01	–	26538-QA01	–
	100	4	26440-QA01	26440-QE01	–	–
	160	6	26444-QA01	26444-QE01	–	–

**Valve with pneumatic actuator**  
single acting with closing spring (NC)  
without solenoid valve  
without position indicator

ISO-KF	10	¾	–	26420-KE11	–	–
	16	⅝	26424-KA11	26424-KE11	26524-KA11	26524-KE11
	25	1	26428-KA11	26428-KE11	26528-KA11	26528-KE11
	40	1½	26432-KA11	26432-KE11	26532-KA11	26532-KE11
	50	2	26434-KA11	26434-KE11	26534-KA11	26534-KE11
ISO-K	63	2½	26436-QA11	26436-QE11	–	–
	80	3	26438-QA11	–	26538-QA11	–
	100	4	26440-QA11	26440-QE11	–	–
	160	6	26444-QA11	26444-QE11	–	–

without solenoid valve, with position indicator: 26 . . . . . **21**

with solenoid valve, without position indicator: 26 . . . . . **31** (specify control voltage)

with solenoid valve, with position indicator: 26 . . . . . **41** (specify control voltage)

**Valve with pneumatic actuator**  
single acting with opening spring (NO)  
without solenoid valve  
without position indicator

ISO-KF	10	¾	–	26420-KE12	–	–
	16	⅝	26424-KA12	26424-KE12	26524-KA12	26524-KE12
	25	1	26428-KA12	26428-KE12	26528-KA12	26528-KE12
	40	1½	26432-KA12	26432-KE12	26532-KA12	26532-KE12
	50	2	26434-KA12	26434-KE12	26534-KA12	26534-KE12

without solenoid valve, with position indicator: 26 . . . . . **22**

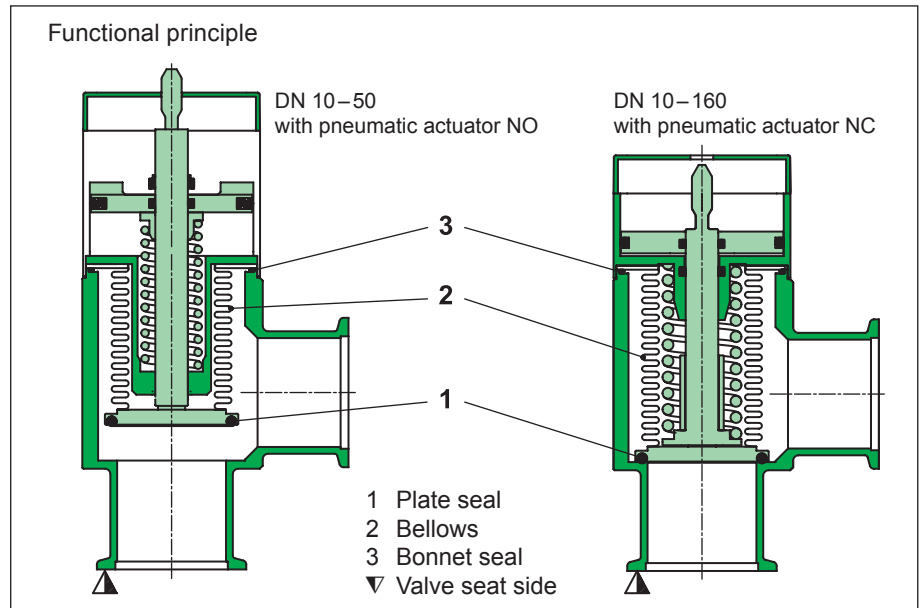
with solenoid valve, without position indicator: 26 . . . . . **32** (specify control voltage)

with solenoid valve, with position indicator: 26 . . . . . **42** (specify control voltage)

→ Further ordering information on next page →

## Features

- Body material:  
aluminum or stainless steel
- Angle and inline version
- Bellows
- Resistant against differential pressure
- Long lifetime



## Technical data

Leak rate: valve body, valve seat  $< 1 \cdot 10^{-9}$  mbar ls<sup>-1</sup>

Pressure range, series 24  
(shaft feedthrough)

- DN 10- 50	1 · 10 <sup>-7</sup> mbar to 5 bar (abs)
- DN 63- 80	1 · 10 <sup>-7</sup> mbar to 4 bar (abs)
- DN 100-160	1 · 10 <sup>-7</sup> mbar to 2 bar (abs)
- DN 200-250	1 · 10 <sup>-7</sup> mbar to 1.6 bar (abs)

Pressure range, series 26  
(bellows)

- DN 10- 50	1 · 10 <sup>-8</sup> mbar to 5 bar (abs)
- DN 63- 80	1 · 10 <sup>-8</sup> mbar to 4 bar (abs)
- DN 100-160	1 · 10 <sup>-8</sup> mbar to 2 bar (abs)

Differential pressure on the plate

- In opening direction	DN 10- 50	≤ 2.0 bar
	DN 63-250	≤ 1.2 bar
- In closing direction	DN 10- 50	≤ 5.0 bar
	DN 63- 80	≤ 4.0 bar
	DN 100-160	≤ 2.0 bar
	DN 200-250	≤ 1.6 bar

Differential pressure at opening ≤ 1 bar

Further technical data on next page →

Continued Ordering information

**Valve with pneumatic actuator**  
double acting  
without solenoid valve  
without position indicator

ISO-K	DN		Ordering numbers	
	mm	inch	aluminum	stainless steel
	100	4	26440-QA14	26440-QE14
	160	6	26444-QA14	26444-QE14

without solenoid valve, with position indicator: 264 . . -Q . 24

with solenoid valve, without position indicator: 264 . . -Q . 34 (specify control voltage)

with solenoid valve, with position indicator: 264 . . -Q . 44 (specify control voltage)

**Valve with electromagnetic actuator**

See pages 190-191

## Continued Technical data

### Cycles until first service

- DN 10– 80
- DN 100–160, series 24
- DN 100–160, series 26
- DN 200–250

with manual actuator	with closing/ opening spring	double acting
10 000	3 million	–
10 000	1 million	2 million
10 000	1 million <sup>3)</sup>	1 million <sup>3)</sup>
–	–	1 million <sup>1)3)</sup>

### Temperature<sup>2)</sup>

- Valve body
- Manual and pneumatic actuator
- Solenoid valve, position indicator
  - DN 10– 80
  - DN 100–160

≤ 150 °C
≤ 120 °C
≤ 80 °C
≤ 50 °C

### Material

- Valve body
  - aluminum DN 16– 63 EN AW-6060 (3.3206), -6061 (3.3211), -6063 (3.3206), -6082 (3.2315)
  - DN 80–160 EN AC-42000
  - stainless steel DN 16–160 AISI 304 (1.4301), AISI 316L (1.4404)
  - DN 200–250 AISI 321 (1.4541), AISI 304 (1.4301)
- Plate DN 16–160 AISI 316L (1.4404, 1.4435)
- DN 200–250 AISI 304 (1.4301)
- Bellows AISI 316L (1.4404, 1.4435), AISI 316 Ti (1.4571)

### Seal: bonnet, plate

FKM (Viton®)

### Feedthrough

- Series 24
- Series 26

shaft feedthrough  
bellows

### Mounting position

any

### Solenoid valve

- DN 10– 80
- DN 100–160

24 VDC, 2.5 W (others on request)  
24 VDC, 1.0 W (others on request)

<sup>1)</sup> Reduced lifetime with venting applications

<sup>2)</sup> Maximum values: depending on operating conditions and sealing materials

<sup>3)</sup> Tested at room temperature under clean and static conditions

### Position indicator: contact rating

- Voltage
- Current

DN 10–160: DN 200–250:  
5–50 VAC/DC ≤ 50 VAC/DC  
5–100 mA ≤ 1.2 A

### Valve position indication

visual (mechanical)

## Angle valves

DN (nominal I.D.)			Conductance (molecular flow)		Valve with manual actuator				Valve with pneumatic actuator, single acting with closing spring (NC)							
					Turns per stroke	Weight		Compressed air min. – max. overpressure	Volume of pneumatic actuator	Closing time	Weight					
mm	inch	ls <sup>-1</sup>	n	Aluminum body		Stainless steel body	bar				psi	l	ft <sup>3</sup>	s	Aluminum body	Stainless steel body
10	¾	3	3.6	–	–	0.26	0.57	4–8	58–116	0.004	0.0001	0.10	–	–	0.34	0.75
16	5/8	5	3.6	0.20	0.44	0.26	0.57	4–8	58–116	0.004	0.0001	0.10	0.28	0.62	0.34	0.75
25	1	14	3.8	0.27	0.60	0.34	0.75	4–8	58–116	0.011	0.0004	0.20	0.41	0.90	0.51	1.12
40	1½	45	4.5	0.60	1.32	0.75	1.65	4–8	58–116	0.035	0.0012	0.55	0.97	2.14	1.13	2.49
50	2	80	4.8	0.94	2.07	1.10	2.43	4–8	58–116	0.047	0.0017	0.65	1.45	3.20	1.61	3.55
63	2½	160	6.6	2.90	6.39	1.70	3.75	4–8	58–116	0.112	0.0040	0.70	2.90	6.39	1.70	3.75
80	3	200	6.6	3.10	6.83	3.39	7.47	4–8	58–116	0.112	0.0040	0.70	3.10	6.83	–	–
100	4	440	11	5.79	12.76	4.85	10.69	4.5–7	65–102	0.330	0.0117	1	10	22	10	22
160	6	1000	11	8.83	19.47	7.35	16.20	4.5–7	65–102	0.650	0.0230	2	14	31	14	31

Angle valves

DN (nominal I. D.)			Conductance (molecular flow)	Valve with pneumatic actuator, single acting with opening spring (NO)						
				Compressed air min. – max. overpressure		Volume of pneumatic actuator		Closing time	Weight	
mm	inch	ls <sup>-1</sup>		bar	psi	l	ft <sup>3</sup>		s	kg
10	3/8	3		4–8	58–116	0.004	0.0001	0.10	0.40	0.88
16	5/8	5		4–8	58–116	0.004	0.0001	0.10	0.40	0.88
25	1	14		4–8	58–116	0.011	0.0004	0.15	0.60	1.32
40	1 1/2	45		4–8	58–116	0.035	0.0012	0.20	1.36	3
50	2	80		4–8	58–116	0.047	0.0017	0.25	2.10	4.63

DN (nominal I. D.)			Conductance (molecular flow)	Valve with pneumatic actuator, double acting						
				Compressed air min. – max. overpressure		Volume of pneumatic actuator		Closing time	Weight	
mm	inch	ls <sup>-1</sup>		bar	psi	l	ft <sup>3</sup>		s	kg
100	4	440		4.5–7	65–102	0.330	0.0117	1	7.38	16.27
160	6	1000		4.5–7	65–102	0.380	0.0134	2	12.54	27.65
200	8	2000		5–7	73–102	3.100	0.1095	2	21	46.30
250	10	3100		5–7	73–102	3.100	0.1095	2	24	52.91

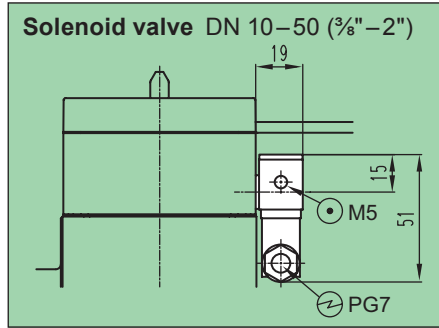
Inline valves

DN (nominal I. D.)			Conductance (molecular flow)	Valve with manual actuator				Valve with pneumatic actuator, single acting with closing spring (NC)								
				Turns per stroke	Weight		Compressed air min. – max. overpressure	Volume of pneumatic actuator		Closing time	Weight					
mm	inch	ls <sup>-1</sup>	n		Aluminum body	Stainless steel body		bar	psi		l	ft <sup>3</sup>	s	Aluminum body	Stainless steel body	
16	5/8	5	3.6	0.28	0.62	0.26	0.57	4–8	58–116	0.004	0.0001	0.10	0.50	1.10	0.50	1.10
25	1	14	3.8	0.42	0.93	1.04	2.29	4–8	58–116	0.011	0.0004	0.20	0.60	1.32	0.60	1.32
40	1 1/2	45	4.5	1	2.20	2.45	5.40	4–8	58–116	0.035	0.0012	0.55	1.40	3.09	1.20	2.65
50	2	80	4.8	1.61	3.55	4.71	10.38	4–8	58–116	0.047	0.0017	0.65	2.60	5.73	2.60	5.73
80	3	200	6.6	3	6.61	–	–	4–8	58–116	0.112	0.0040	0.70	3.75	8.27	–	–

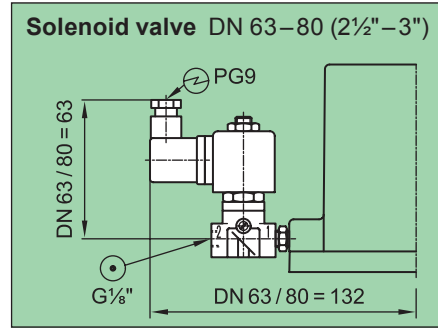
DN (nominal I. D.)			Conductance (molecular flow)	Valve with pneumatic actuator, single acting with opening spring (NO)								
				Compressed air min. – max. overpressure		Volume of pneumatic actuator		Closing time	Weight			
mm	inch	ls <sup>-1</sup>		bar	psi	l	ft <sup>3</sup>		s	kg	lbs	
16	5/8	5		4–8	58–116	0.004	0.0001	0.10	0.45	0.99	0.47	1.04
25	1	14		4–8	58–116	0.011	0.0004	0.15	0.70	1.54	0.60	1.32
40	1 1/2	45		4–8	58–116	0.035	0.0012	0.20	1.54	3.40	1.40	3.09
50	2	80		4–8	58–116	0.047	0.0017	0.25	2.90	6.39	2.79	6.15



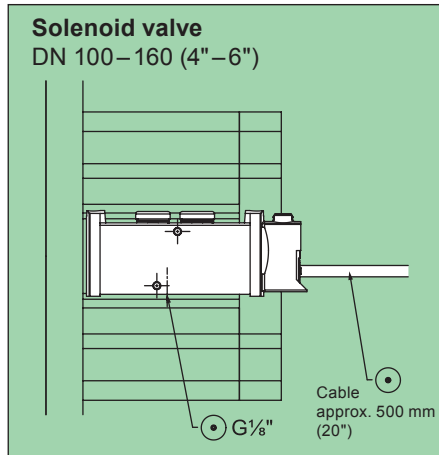
## Solenoid valve



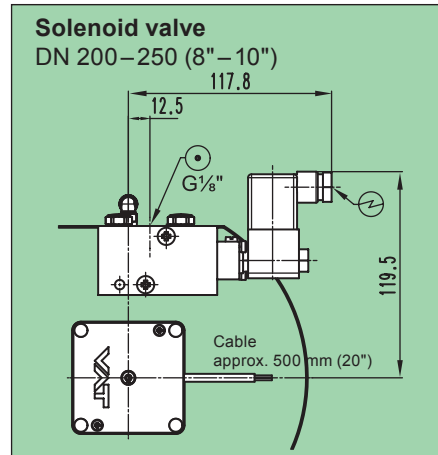
Ordering numbers: 24/26 . . . . . 31/41  
24/26 . . . . . 32/42



Ordering numbers: 24/26 . . . . . 31/41

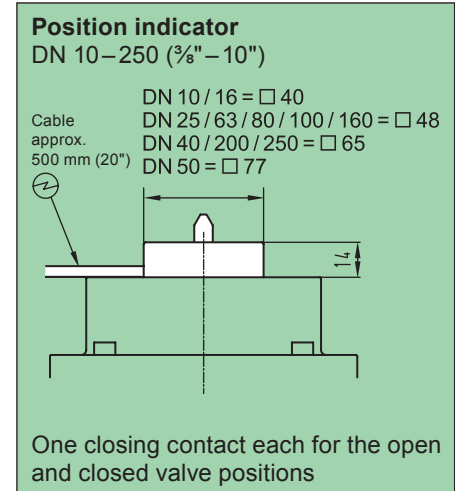


Ordering numbers: 24/26 . . . . . 31/41  
24/26 . . . . . 34/44



Ordering numbers: 24/26 . . . . . 34/44

## Position indicator



Ordering numbers: 24/26 . . . . . 21/41  
24/26 . . . . . 22/42  
24/26 . . . . . 24/44

- ⊙ Compressed air connection
- ⊕ Electrical connection

## Options

### Actuator

- Other solenoid valve voltage (standard: 24 VDC)
- Solenoid valve with manual emergency operation
- Position indicator bakeable to 120 °C or 200 °C
- Common connector for solenoid valve and position indicator (up to 48V only)
- Customer specified actuators

### Valve

- CF flanges
- Other sealing materials
- Customer specified bodies

### Ordering information for options:

Ordering No. of valve-X (e. g. 26432-KA41-X, X = pos. indicator bakeable to 200 °C)

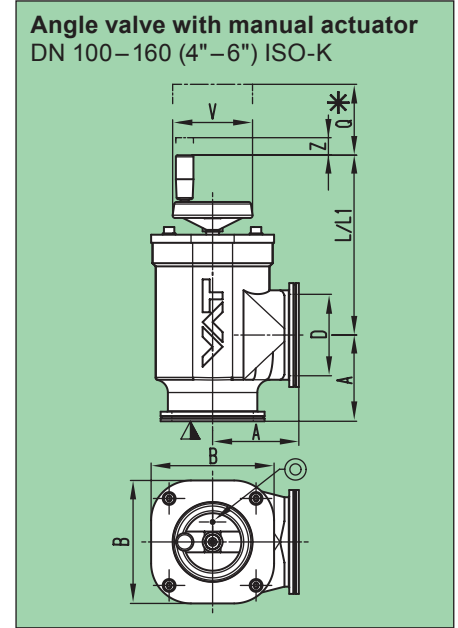
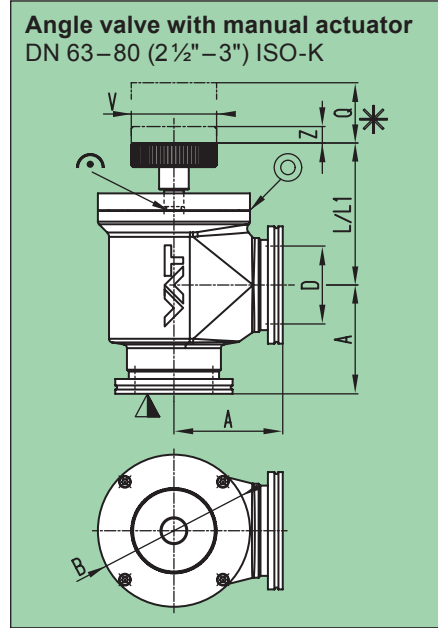
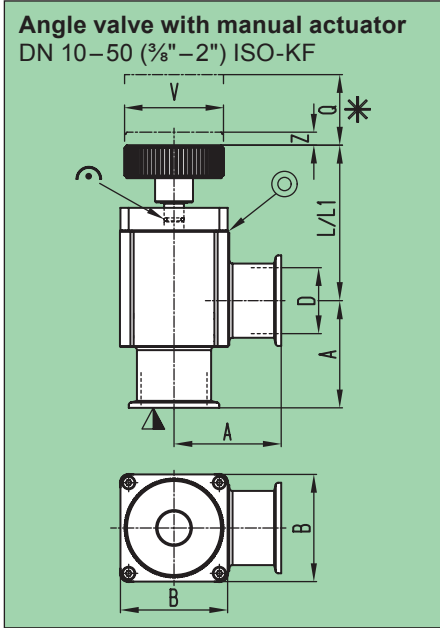
## Spare parts

- **Seals**  
on request (specify fabrication number of valve)

## Accessories

- **Heater**  
on request (specify fabrication number of valve)
- **Flange connections**  
for installation of the valve: see series 31 and 32

Dimensions



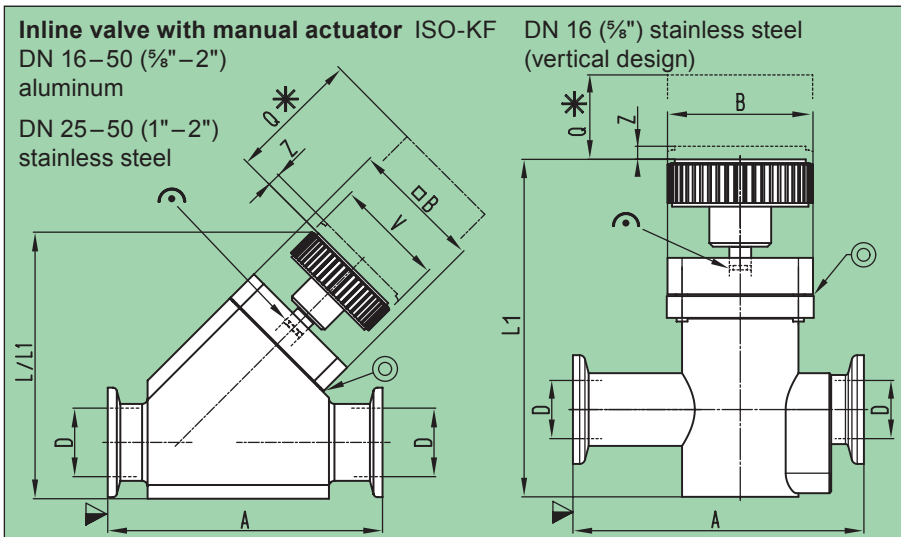
DN	mm	10	16	25	40	50	63	80	100	160
inch		3/8	5/8	1	1 1/2	2	2 1/2	3	4	6
A	mm	30	40	50	65	70	88	90	108	138
	inch	1.18	1.57	1.97	2.56	2.76	3.46	3.54	4.25	5.43
B	mm	40	40	48	65	77	123	123	154	215
	inch	1.57	1.57	1.89	2.56	3.03	4.84	4.84	6.06	8.46
D	mm	12	16	25	40	50	63	80	100	153
	inch	0.47	0.63	0.98	1.57	1.97	2.48	3.15	3.94	6.02
L	mm	-	64.90	60.90	94.30	101.10	112	111.70	225.10	240.50
	inch	-	2.56	2.40	3.71	3.98	4.41	4.40	8.86	9.47
L1	mm	67.40	67.40	64.30	97.30	104.10	111.70	-	215.60	244.70
	inch	2.65	2.65	2.53	3.83	4.10	4.40	-	8.49	9.63
Q	mm	46	46	44	73.50	85.50	105	105	170	195
	inch	1.81	1.81	1.73	2.89	3.37	4.13	4.13	6.69	7.68
V	mm	40	40	40	60	60	60	60	100	160
	inch	1.57	1.57	1.57	2.36	2.36	2.36	2.36	3.94	6.30
Z <sup>1)</sup>	mm	3.60	3.60	4.70	7.90	9.30	13.30	13.30	22	27.20
	inch	0.14	0.14	0.19	0.31	0.37	0.52	0.52	0.87	1.07

- ▽ Valve seat side
- \* Required for dismantling
- ⊕ Mechanical position indication
- ⊗ Leak detection hole

L = aluminum  
L1 = stainless steel

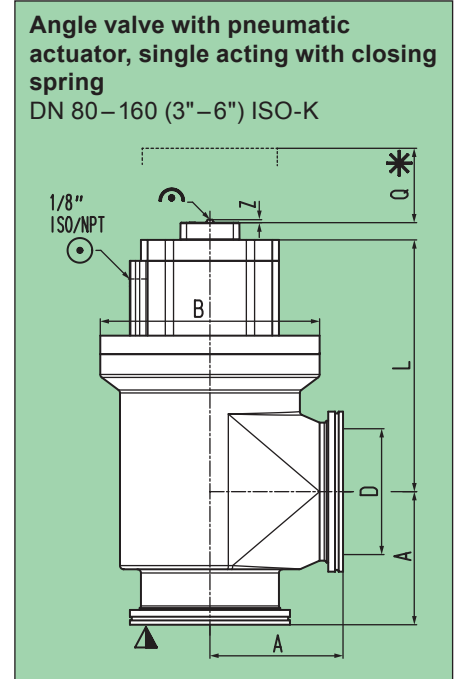
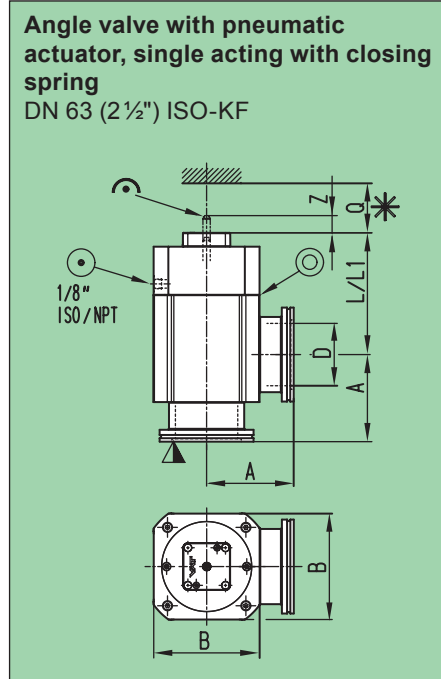
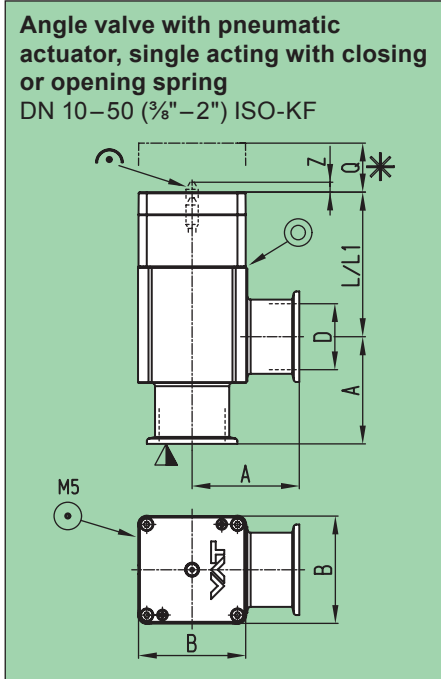
<sup>1)</sup> Gate stroke is longer due to transmission

DN 80 on request



DN	mm	16	25	40	50
inch		5/8	1	1 1/2	2
A	mm	80	100	130	178
	inch	3.15	3.94	5.12	7.01
B	mm	40	48	65	77
	inch	1.57	1.89	2.56	3.03
D	mm	16	25	40	50
	inch	0.63	0.98	1.57	1.97
L	mm	90.60	97	143.50	167.20
	inch	3.57	3.82	5.65	6.58
L1	mm	92.80	105.80	152.50	175.10
	inch	3.65	4.17	6	6.89
Q	mm	46	44	73.50	85.50
	inch	1.81	1.73	2.89	3.37
V	mm	40	40	60	60
	inch	1.57	1.57	2.36	2.36
Z	mm	3.60	4.70	7.90	9.30
	inch	0.14	0.19	0.31	0.37

## Dimensions

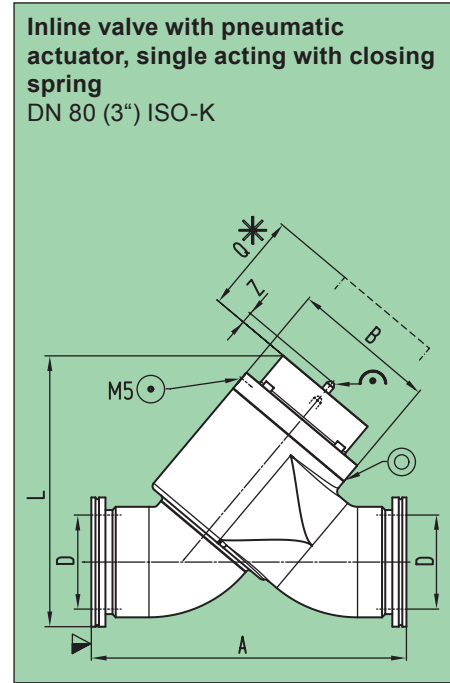
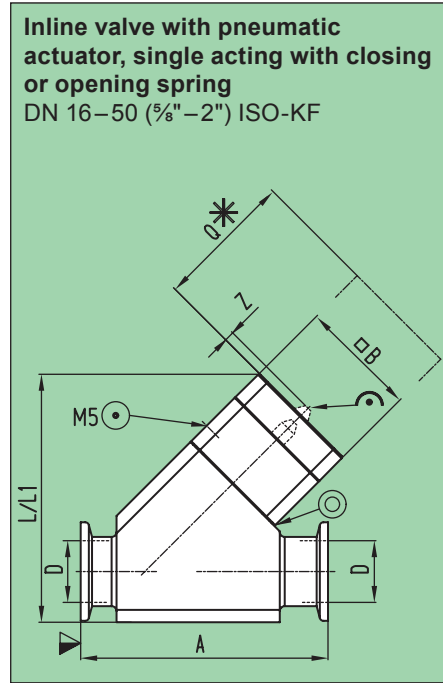
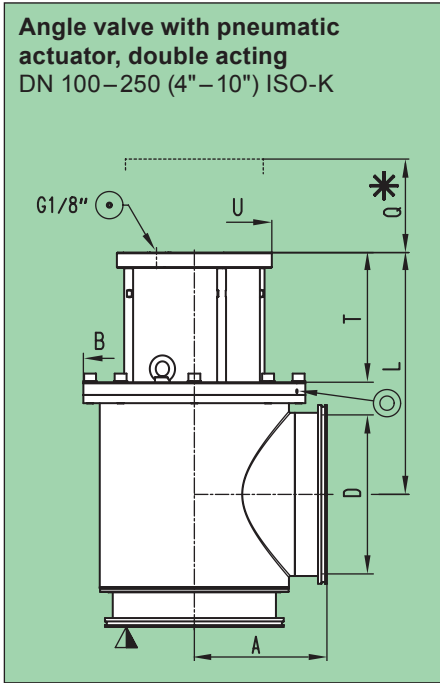


- ▽ Valve seat side
- \* Required for dismantling
- ⊙ Compressed air connection
- ⤴ Mechanical position indication
- ⊙ Leak detection hole

L = aluminum  
L1 = stainless steel

DN	mm inch		10 3/8	16 5/8	25 1	40 1 1/2	50 2	63 2 1/2	80 3	100 4	160 6
A	mm inch		30 1.18	40 1.57	50 1.97	65 2.56	70 2.76	88 3.46	90 3.54	108 4.25	138 5.43
B	mm inch		40 1.57	40 1.57	48 1.89	65 2.56	77 3.03	107.60 4.24	123 4.84	178 7.01	220 8.66
D	mm inch		12 0.47	16 0.63	25 0.98	40 1.57	50 1.97	63 2.48	80 3.15	102 4.02	153 6.02
L	mm inch	with closing spring	–	65.20 2.57	60.60 2.39	87.70 3.45	96 3.78	123 4.84	109 4.29	218.30 8.59	221.50 8.72
L1	mm inch		67.70 2.67	67.70 2.67	64 2.52	90.70 3.57	99 3.90	118.40 4.66	– –	211.70 8.33	228 8.98
L	mm inch	with opening spring	–	78.90 3.11	79.10 3.11	110.20 4.34	96 3.78	–	–	–	–
L1	mm inch		67.70 2.67	81.30 3.20	82.50 3.25	113.20 4.46	124 4.88	–	–	–	–
Q	mm inch		46 1.81	46 1.81	44 1.73	73.50 2.89	85.50 3.37	105 4.13	115.60 4.55	170 6.69	200 7.87
Z	mm inch		2 0.08	2 0.08	4 0.16	9.50 0.37	10.50 0.41	31.40 1.24	31.40 1.24	2.40 0.09	2.40 0.09

## Dimensions



- ▽ Valve seat side
- \* Required for dismantling
- ⊙ Compressed air connection
- ∩ Mechanical position indication
- ⊙ Leak detection hole

E

L = aluminum  
L1 = stainless steel

DN	mm	100	160	200	250
inch		4	6	8	10
A	mm	108	138	178	208
inch		4.25	5.43	7.01	8.19
B	mm	178	220	298	339
inch		7.01	8.66	11.73	13.35
D	mm	102	153	213	261
inch		4.02	6.02	8.39	10.28
L	mm	204.10	204.50	324.70	379.10
inch		8.04	8.05	12.78	14.93
Q	mm	170	200	258	305
inch		6.69	7.87	10.16	12.01
T	mm	77.50	84.50	174.10	204
inch		3.03	3.30	6.80	7.97
U	mm	136	136	208	208
inch		5.35	5.35	8.19	8.19

DN	mm		16	25	40	50	80
	inch		5/8	1	1 1/2	2	3
A	mm		80	100	130	178	268
inch			3.15	3.94	5.12	7.01	10.55
B	mm		40	48	65	77	123
inch			1.57	1.89	2.56	3.03	4.84
D	mm		16	25	40	50	80
inch			0.63	0.98	1.57	1.97	3.15
L	mm	with closing spring	91.50	100.30	140.90	170.10	230.50
inch			3.60	3.95	5.55	6.70	9.07
L1	mm	with closing spring	93	108.90	149.90	171.80	—
inch			3.66	4.29	5.90	6.76	—
L	mm	with opening spring	102.10	118	157.20	187.80	—
inch			4.02	4.65	6.19	7.39	—
L1	mm	with opening spring	106.70	123.20	166	189.70	—
inch			4.20	4.85	6.54	7.47	—
Q	mm		46	44	73.50	85.50	150
inch			1.81	1.73	2.89	3.37	5.91
Z	mm		2	4	9.50	10.50	31.40
inch			0.08	0.16	0.37	0.41	1.24



## Main applications

For pumping and venting of HV systems where no compressed air is available



## Ordering information

**Valve with electromagnetic actuator**  
single acting with closing spring (NC)  
with control electronics  
with position indicator

	DN		Ordering numbers			
	mm	inch	Angle valve		Inline valve	
			aluminum	stainless steel	aluminum	stainless steel
ISO-KF	10	3/8	–	26420-KE61	–	–
	16	5/8	26424-KA61	26424-KE61	26524-KA61	26524-KE61
	25	1	26428-KA61	26428-KE61	26528-KA61	26528-KE61
	40	1 1/2	26432-KA61	26432-KE61	26532-KA61	26532-KE61

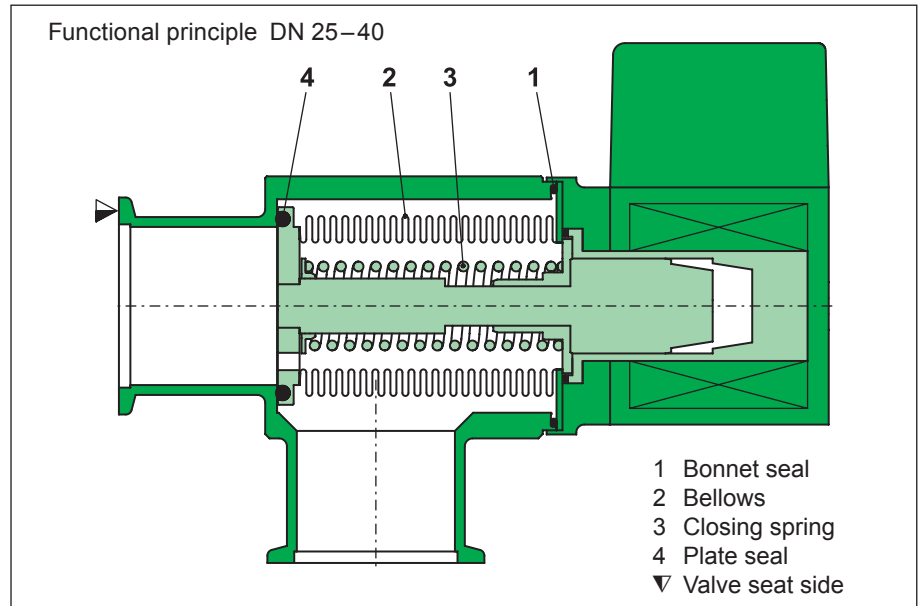
## Technical data

Leak rate: valve body, valve seat	< 1 · 10 <sup>-9</sup> mbar ls <sup>-1</sup>
Pressure range	10 <sup>-8</sup> mbar to 2 bar (abs)
Differential pressure on the plate	2 bar
Cycles until first service	200 000
Temperature <sup>1)</sup>	
– Valve body, control electronics	≤ 50 °C
Material	
– Valve body	
– aluminum	EN AW-6060 (3.3206), -6061 (3.3211), -6063 (3.3206), -6082 (3.2315)
– stainless steel	AISI 304 (1.4301, 1.4305)
Seal: bonnet, plate	FKM (Viton®)
Feedthrough	bellows
Mounting position	any
Mains voltage	100–115 VAC / 200–240 VAC, 50–60 Hz
Starting power / holding power	700 W / 10 W
Closing or opening time	0.2 s
Operating frequency	max. 15 min <sup>-1</sup> at 20 °C
Conductance (molecular flow): DN 10/16/25/40	3 ls <sup>-1</sup> / 5 ls <sup>-1</sup> / 14 ls <sup>-1</sup> / 45 ls <sup>-1</sup>
Weight: angle valve, stainless steel	
DN 10/16/25/40	1.3/1.3/1.5/2.0 kg (2.9/2.9/3.3/4.4 lbs)

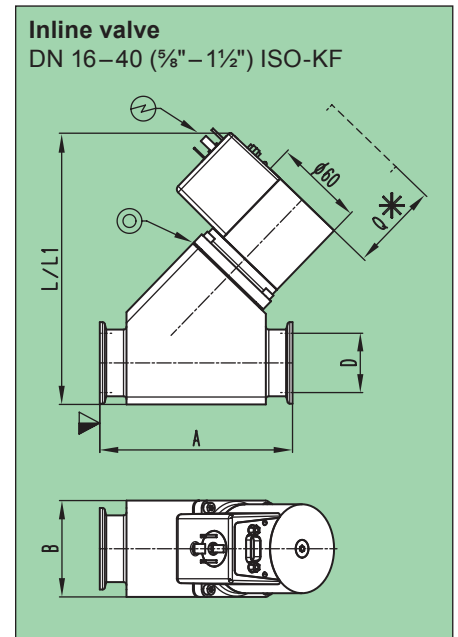
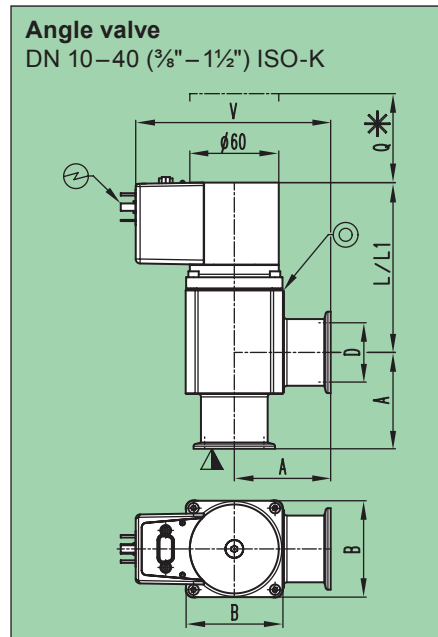
<sup>1)</sup> Maximum values: depending on operating conditions and sealing materials

## Features

- Body material:  
aluminum or stainless steel
- Angle and inline version
- Best conductance in its class
- Resistant against differential pressure
- Long lifetime



## Dimensions



- ▽ Valve seat side
- \* Required for dismantling
- ⊕ Control electronics connection
- ⊙ Leak detection hole

DN	mm	10	16	25	40
inch		3/8	5/8	1	1 1/2
A	mm	30	40	50	65
	inch	1.18	1.57	1.97	2.56
B	mm	40	40	48	65
	inch	1.57	1.57	1.89	2.56
D	mm	10	16	25	40
	inch	0.39	0.63	0.98	1.57
L	mm	–	100	93	114
	inch	–	3.94	3.66	4.49
L1	mm	102.50	102.50	103.40	117
	inch	4.04	4.04	4.07	4.61
Q	mm	46	46	44	73.50
	inch	1.81	1.81	1.73	2.89
V	mm	96.50	106.50	116.50	131.50
	inch	3.80	4.20	4.59	5.18

DN	mm	16	25	40
inch		5/8	1	1 1/2
A	mm	80	100	130
	inch	3.15	3.94	5.12
B	mm	40	48	65
	inch	1.57	1.89	2.56
D	mm	16	25	40
	inch	0.63	0.98	1.57
L	mm	148	153	183
	inch	5.83	6.02	7.20
L1	mm	149.5	161	192
	inch	5.89	6.34	7.56
Q	mm	46	44	73.50
	inch	1.81	1.73	2.89

L = aluminum  
L1 = stainless steel