

HV ANGLE / INLINE VALVE, SERIES 26.4 / 26.5

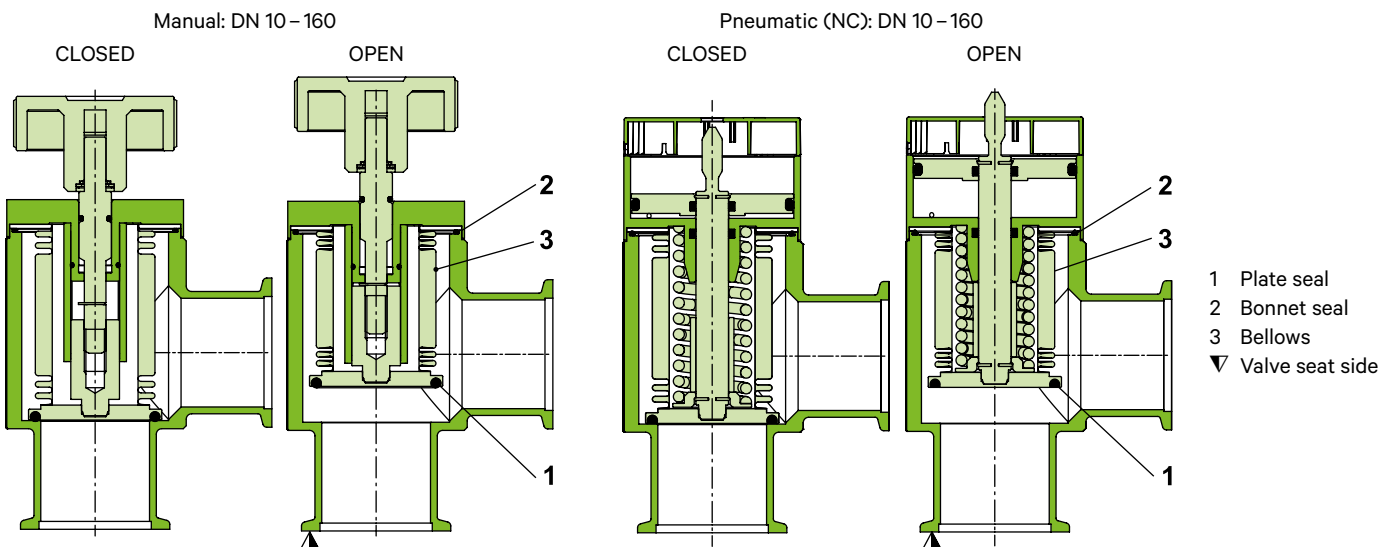
For pumping and venting of HV systems.



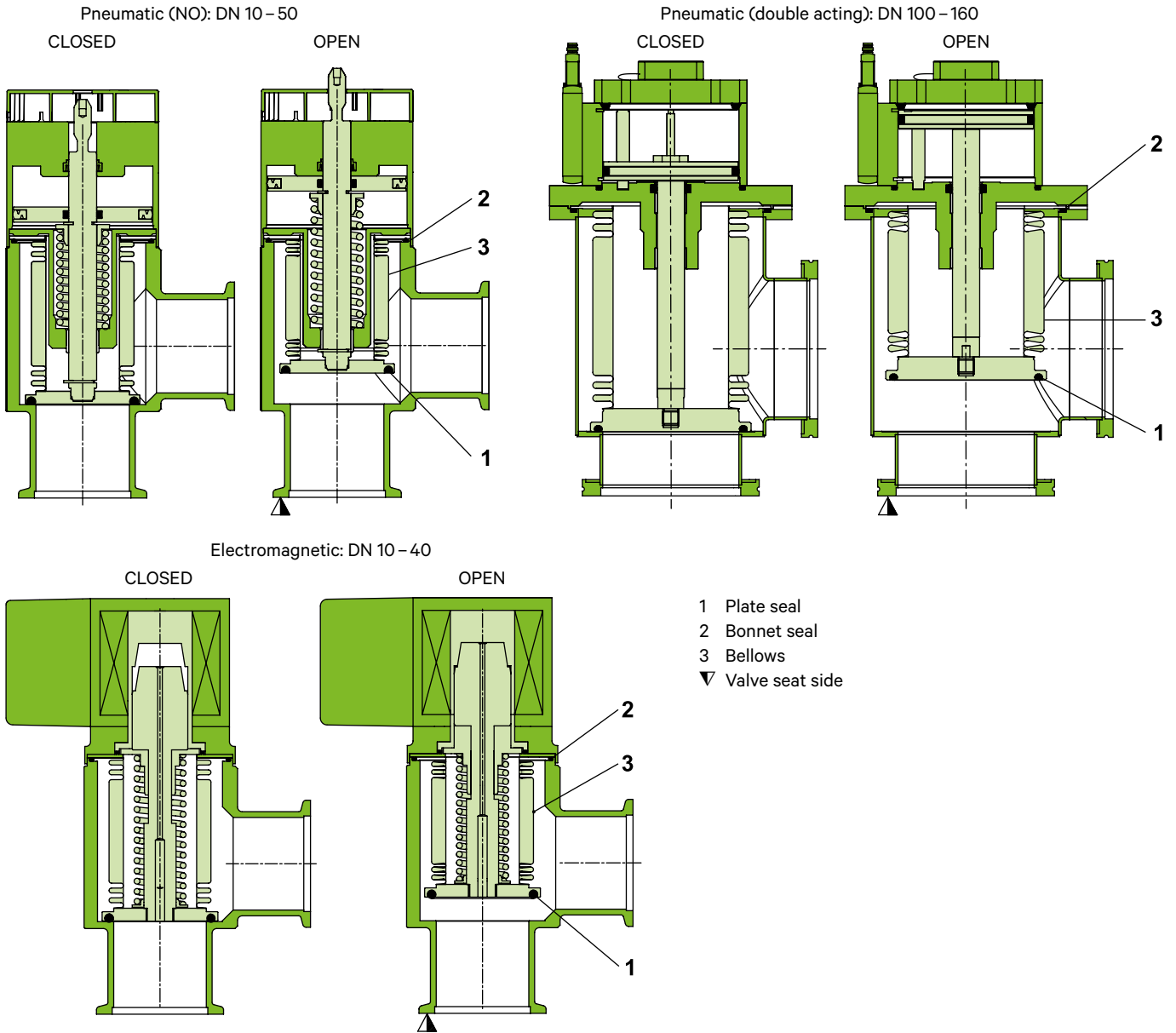
MAIN FEATURES

Sizes	DN 10 – 160 mm (3/8" – 6")
Actuators	manual: with removable handwheel pneumatic: single acting with closing spring (NC) or opening spring (NO), or double acting electromagnetic: single acting with closing spring (NC)
Body material	aluminum or stainless steel
Feedthrough	bellows
Standard flanges	ISO-KF, ISO-K

FUNCTIONAL PRINCIPLE



FUNCTIONAL PRINCIPLE



TECHNICAL DATA (ANGLE AND INLINE VALVES)

Leak rate	Valve body, valve seat		$< 1 \cdot 10^{-9} \text{ mbar ls}^{-1}$	
Pressure range	Valve with manual/pneumatic actuator	DN 10 – 50	$1 \cdot 10^{-8} \text{ mbar to 5 bar (abs)}$	
		DN 63 – 80	$1 \cdot 10^{-8} \text{ mbar to 4 bar (abs)}$	
		DN 100 – 160	$1 \cdot 10^{-8} \text{ mbar to 2 bar (abs)}$	
	Valve with electromagnetic actuator	DN 10 – 40	$1 \cdot 10^{-8} \text{ mbar to 2 bar (abs)}$	
Differential pressure on the plate	Valve with manual/pneumatic actuator	In opening direction	DN 10 – 50	$\leq 2.0 \text{ bar}$
			DN 63 – 160	$\leq 1.2 \text{ bar}$
		In closing direction	DN 10 – 50	$\leq 5.0 \text{ bar}$
			DN 63 – 80	$\leq 4.0 \text{ bar}$
		Valve with electromagnetic actuator	DN 100 – 160	$\leq 2.0 \text{ bar}$
			DN 10 – 40	$\leq 2.0 \text{ bar}$
Differential pressure at opening			$\leq 1 \text{ bar}$	

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Cycles until first service ¹⁾	Valve with manual actuator	DN 10 – 160	10 000
	Valve with pneumatic actuator	DN 10 – 80	3 million (NC, NO)
		DN 100 – 160	1 million (NC, double acting)
	Valve with electromagnetic actuator	DN 10 – 40	200 000
Temperature ²⁾	Valve body: valve with manual/pneumatic actuator		≤ 150 °C
	valve with electromagnetic actuator		≤ 50 °C
	Actuator: manual/pneumatic		≤ 120 °C
	electromagnetic		≤ 50 °C
Solenoid valve & position indicator	DN 10 – 80	≤ 80 °C	
	DN 100 – 160	≤ 50 °C	
Material	Aluminum valve body	DN 16 – 63	EN AW-6060 (3.3206), EN AW-6061 (3.3211), EN AW-6063 (3.3206), EN AW-6082 (3.2315)
		DN 80 – 160	EN AC-42000
	Stainless steel valve body	DN 10 – 50	AISI 304 (1.4301)
		DN 63 – 160	AISI 316L (1.4404)
	Plate		AISI 316L (1.4404, 1.4435)
Bellows		AISI 316L (1.4404, 1.4435), AISI 316 Ti (1.4571)	
Seal	Bonnet, plate		FKM (Viton®)
Feedthrough			bellows
Mounting position			any
Solenoid valve	DN 10 – 80		24 V DC, 2.5 W (others on request)
	DN 100 – 160		24 V DC, 1.0 W (others on request)
Position indicator: contact rating	Voltage: valve with manual/pneumatic actuator		5 – 50 V AC / DC
	valve with electromagnetic actuator		max. 48 V AC / DC
	Current: valve with manual/pneumatic actuator		5 – 100 mA
	valve with electromagnetic actuator		max. 500 mA
Mains voltage: valve with electromagnetic actuator			100 – 120 V / 200 – 240 V / 50 – 60 Hz
Operating frequency: valve with electromagnetic actuator			max. 15 min ⁻¹ at 20 °C
Valve position indication			visual (mechanical)

¹⁾ Tested at room temperature under clean and static conditions.

²⁾ Maximum values: depending on operating conditions and sealing materials.

ANGLE VALVES

DN (nominal I. D.)		Conductance (molecular flow)		Turns per stroke		with manual actuator				with pneumatic actuator, single acting with closing spring (NC)									
						Weight				Weight									
						Aluminum valve		Stainless steel valve		Compressed air min. – max. overpressure		Volume of pneumatic actuator		Closing time		Aluminum valve		Stainless steel valve	
mm	inch	ls ⁻¹	n	kg	lbs	kg	lbs	kg	lbs	bar	psi	l	ft ³	s	kg	lbs	kg	lbs	
10	¾	3	3.6	-	-	0.26	0.57	4 – 8	58 – 116	0.004	0.0001	0.10	-	-	0.34	0.75			
16	⅝	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	-	-	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	1.050	0.0371	2	14	31	14	31			

ANGLE VALVES

			with pneumatic actuator, single acting with opening spring (NO)								
DN (nominal I.D.)		Conductance (molecular flow)						Weight			
mm	inch		ls ⁻¹	Compressed air min. – max. overpressure		Volume of pneumatic actuator		Closing time s	Aluminum valve		Stainless steel valve
			bar	psi	l	ft ³			kg	lbs	kg
10	3/8	3	4 – 8	58 – 116	0.004	0.0001	0.10	–	–	0.45	0.99
16	5/8	5	4 – 8	58 – 116	0.004	0.0001	0.10	0.45	0.99	0.50	1.10
25	1	14	4 – 8	58 – 116	0.011	0.0004	0.15	0.60	1.32	0.70	1.54
40	1½	45	4 – 8	58 – 116	0.035	0.0012	0.20	1.28	2.82	1.40	3.09
50	2	80	4 – 8	58 – 116	0.047	0.0017	0.25	2	4.41	2.10	4.63
			with pneumatic actuator, double acting								
100	4	440	4.5 – 7	65 – 102	0.330	0.0117	1	7.38	16.27	7.9	17.42
160	6	1000	4.5 – 7	65 – 102	0.380	0.0134	2	12.54	27.65	10.7	23.59

INLINE VALVES

			with manual actuator				with pneumatic actuator, single acting with closing spring (NC)									
DN (nominal I.D.)		Conductance (molecular flow)	Turns per stroke	Weight									Weight			
mm	inch			ls ⁻¹	Aluminum valve		Stainless steel valve		Compressed air min. – max. overpressure		Volume of pneumatic actuator		Closing time s	Aluminum valve		Stainless steel valve
			kg	lbs	kg	lbs	bar	psi	l	ft ³		kg		lbs	kg	lbs
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	1½	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	–	–
			with pneumatic actuator, single acting with opening spring (NO)													
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	1½	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					

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ANGLE & INLINE VALVES

with electromagnetic actuator													
DN (nominal I. D.)		Conductance (molecular flow)	Starting power	Holding power	Closing / opening time	Weight							
						Angle valve				Inline valve			
mm	inch	ls ⁻¹	W	W	s	aluminum		stainless steel		aluminum		stainless steel	
						kg	lbs	kg	lbs	kg	lbs	kg	lbs
10	¾	3	700	10	0.2	–	–	1.30	2.90	–	–	–	–
16	¾	5	700	10	0.2	1.30	2.90	1.30	2.90	1.30	2.90	1.40	3.10
25	1	14	700	10	0.2	1.40	3.10	1.40	3.09	1.50	3.30	1.50	3.30
40	1½	45	700	10	0.2	1.80	4	2	4.40	2.20	4.85	1.65	3.64

 OPTIONS,
CUSTOMIZED SOLUTIONS

ACTUATOR (manual & pneumatic)

- Other solenoid valve voltage (standard 24VDC)
- Solenoid valve with manual emergency operation
- Bakeable position indicator: actuator 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

SPARE PARTS

We can offer a wide variety of 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 and 32
- Heater

 ORDERING INFORMATION
FOR STANDARD VALVES

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	¾	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

	DN		Ordering numbers			
	mm	inch	Angle valve		Inline valve	
			aluminum	stainless steel	aluminum	stainless steel
ISO-KF	10	3/8	-	26420-KE11	-	-
	16	5/8	26424-KA11	26424-KE11	26524-KA11	26524-KE11
	25	1	26428-KA11	26428-KE11	26528-KA11	26528-KE11
	40	1 1/2	26432-KA11	26432-KE11	26532-KA11	26532-KE11
	50	2	26434-KA11	26434-KE11	26534-KA11	26534-KE11
ISO-K	63	2 1/2	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

	DN		Ordering numbers			
	mm	inch	Angle valve		Inline valve	
			aluminum	stainless steel	aluminum	stainless steel
ISO-KF	10	3/8	-	26420-KE12	-	-
	16	5/8	26424-KA12	26424-KE12	26524-KA12	26524-KE12
	25	1	26428-KA12	26428-KE12	26528-KA12	26528-KE12
	40	1 1/2	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)

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

	DN		Ordering numbers	
	mm	inch	Angle valve	
			aluminum	stainless steel
ISO-K	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
 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

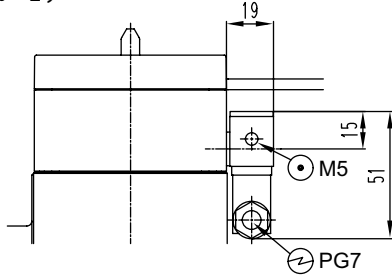
ORDERING INFORMATION
 FOR VALVES WITH OPTIONS

Basic ordering number plus «-X»: -X to be specified
 Example: 26432-KA42-X, X = position indicator bakeable to 200 °C

E

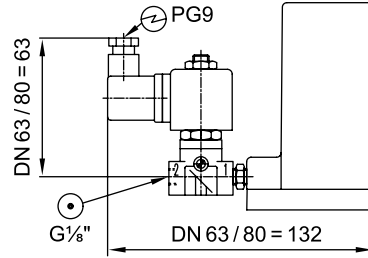
SOLENOID VALVES

Solenoid valve
DN 10 – 50 (3/8" – 2")



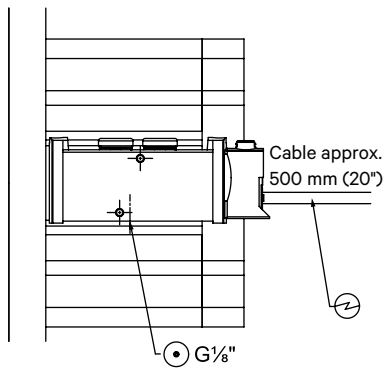
Ordering numbers: 26 **31/41**
26 **32/42**

Solenoid valve
DN 63 – 80 (2 1/2" – 3")



Ordering numbers: 26 **31/41**

Solenoid valve
DN 100 – 160 (4" – 6")

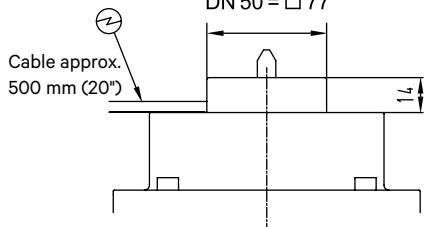


Ordering numbers: 26 **31/41**
26 **34/44**

POSITION INDICATOR

Position indicator
DN 10 – 160 (3/8" – 6")

DN 10 / 16 = □ 40
DN 25 / 63 / 80 / 100 / 160 = □ 48
DN 40 / 200 / 250 = □ 65
DN 50 = □ 77

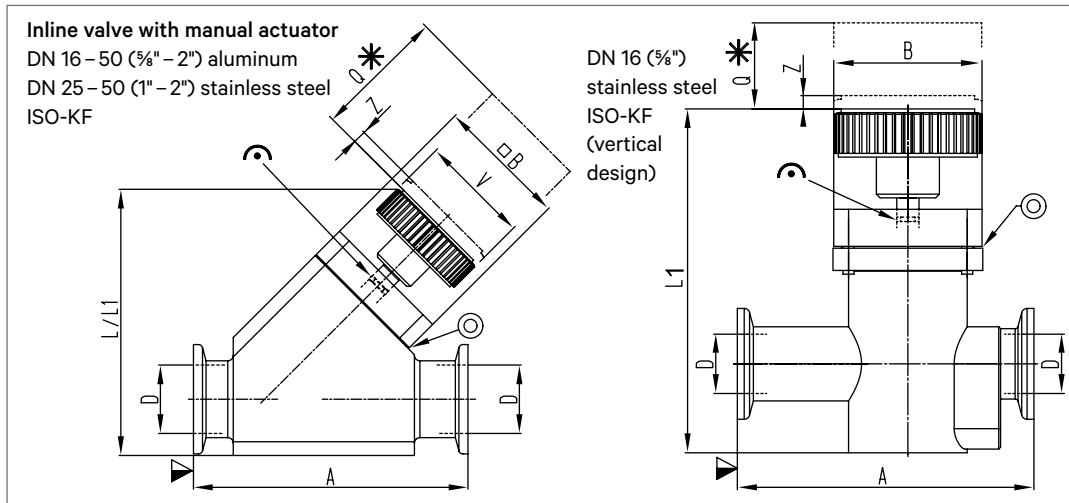
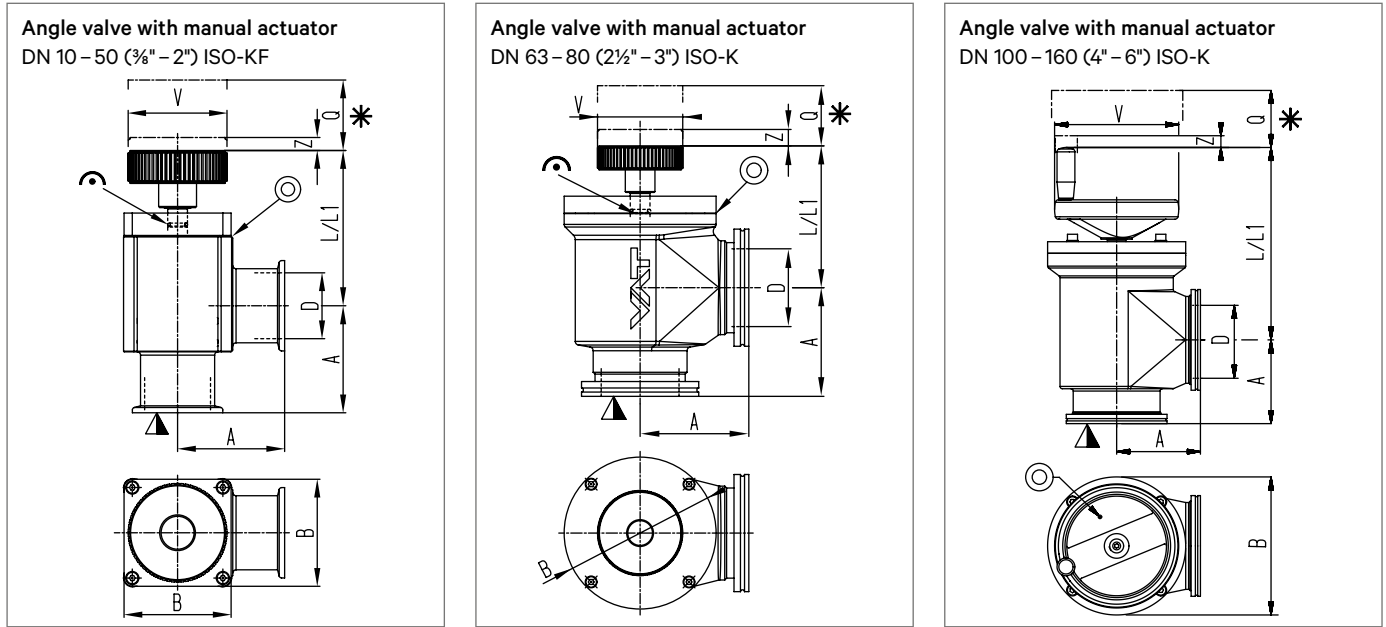


One closing contact each for the open and closed valve positions.

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

- ⊕ Compressed air connection
- ⊖ Electrical connection

DIMENSIONS



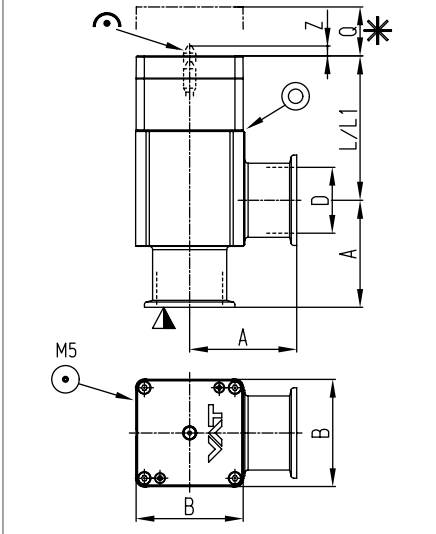
- ▼ Valve seat side
 - * Required for dismantling
 - ☉ Mechanical position indication
 - ⊗ Leak detection hole
- L = aluminum
L1 = stainless steel

¹⁾ Gate stroke longer due to transmission

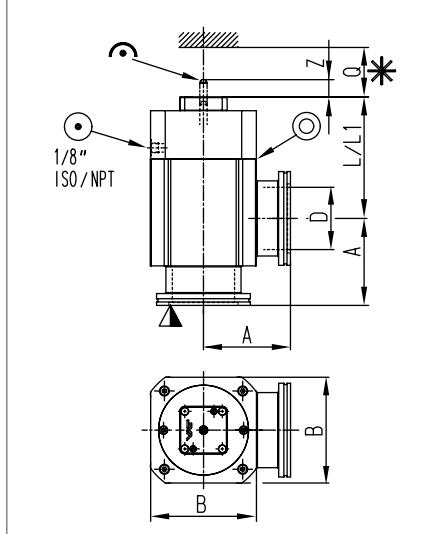
DN	Angle valves										Inline valves				
	mm inch	10 3/8	16 1/2	25 1	40 1 1/2	50 2	63 2 1/2	80 3	100 4	160 6	16 3/8	25 1	40 1 1/2	50 2	80 3
A	mm inch	30 1.18	40 1.57	50 1.97	65 2.56	70 2.76	88 3.46	90 3.54	108 4.25	138 5.43	80 3.15	100 3.94	130 5.12	178 7.01	on request
B	mm inch	40 1.57	40 1.57	48 1.89	65 2.56	77 3.03	123 4.84	123 4.84	154 6.06	215 8.46	40 1.57	48 1.89	65 2.56	77 3.03	
D	mm inch	12 0.47	16 0.63	25 0.98	40 1.57	50 1.97	63 2.48	80 3.15	100 3.94	153 6.02	16 0.63	25 0.98	40 1.57	50 1.97	
L	mm inch	-	64.90 2.56	60.90 2.40	94.30 3.71	101.10 3.98	112 4.41	111.70 4.40	225.10 8.86	240.50 9.47	90.60 3.57	97 3.82	143.50 5.65	167.20 6.58	
L1	mm inch	67.40 2.65	67.40 2.65	64.30 2.53	97.30 3.83	104.10 4.10	111.70 4.40	-	215.60 8.49	244.70 9.63	92.80 3.65	105.80 4.17	152.50 6	175.10 6.89	
Q	mm inch	46 1.81	46 1.81	44 1.73	73.50 2.89	85.50 3.37	105 4.13	105 4.13	170 6.69	195 7.68	46 1.81	44 1.73	73.50 2.89	85.50 3.37	
V	mm inch	40 1.57	40 1.57	40 1.57	60 2.36	60 2.36	60 2.36	60 2.36	100 3.94	160 6.30	40 1.57	40 1.57	60 2.36	60 2.36	
Z ¹⁾	mm inch	360 0.14	360 0.14	470 0.19	790 0.31	930 0.37	1330 0.52	1330 0.52	22 0.87	2720 1.07	360 0.14	470 0.19	790 0.31	930 0.37	

DIMENSIONS

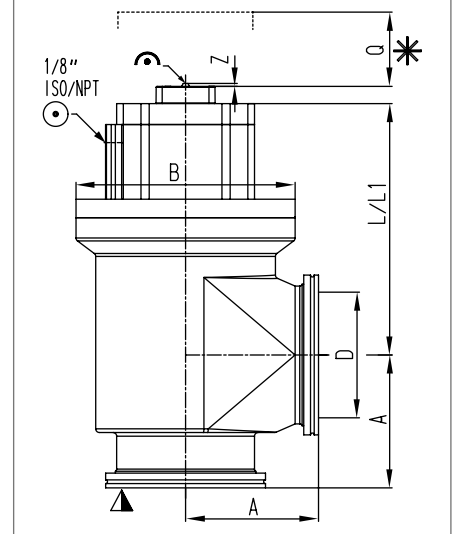
Angle valve with pneumatic actuator,
single acting with closing spring (NC)
or opening spring (NO)
DN 10 – 50 (3/8" – 2") ISO-KF



Angle valve with pneumatic actuator,
single acting with closing spring (NC)
DN 63 (2 1/2") ISO-K



Angle valve with pneumatic actuator,
single acting with closing spring (NC)
double acting
DN 80 – 160 (3" – 6") ISO-K



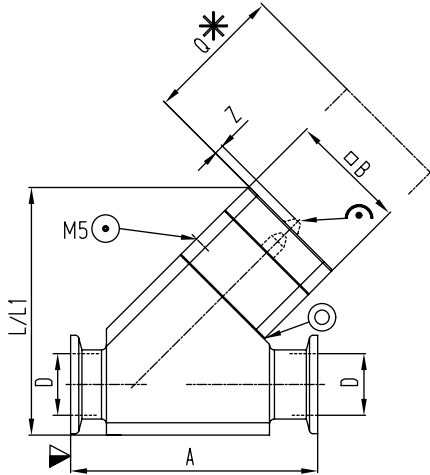
L = aluminum
L1 = stainless steel

	DN	10	16	25	40	50	63	80	100	160
	mm inch	3/8 %	5/8 %	1 1	1 1/2 1.5	2 2	2 1/2 2.5	3 3	4 4	6 6
	A	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	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	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
with closing spring	L	-	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	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
with opening spring	L	-	78.90 3.11	79.10 3.11	110.20 4.34	96 3.78	-	-	-	-
	L1	67.70 2.67	81.30 3.20	82.50 3.25	113.20 4.46	124 4.88	-	-	-	-
double acting	L	-	-	-	-	-	-	-	218.10 8.59	218.50 8.60
	L1	-	-	-	-	-	-	-	211.50 8.33	225 8.86
	Q	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	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

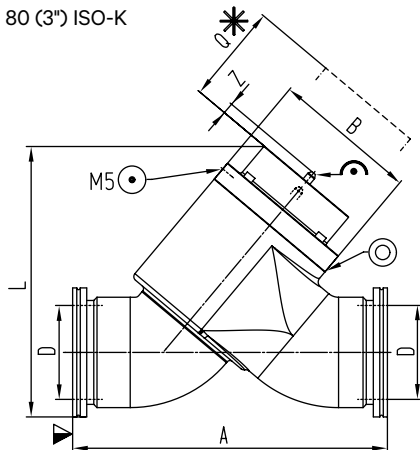
- ▼ Valve seat side
- * Required for dismantling
- ⊙ Compressed air connection
- ↻ Mechanical position indication
- ⊙ Leak detection hole

DIMENSIONS

Inline valve with pneumatic actuator, single acting with closing spring (NC) or opening spring (NO)
 DN 16 – 50 (3/8" – 2") ISO-KF



DN 80 (3") ISO-K



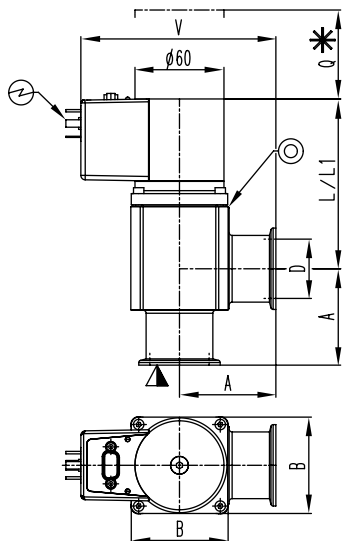
L = aluminum
 L1 = stainless steel

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

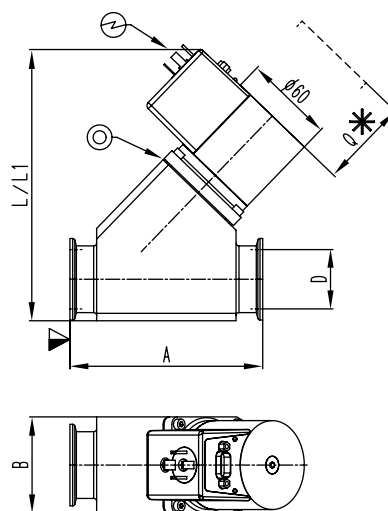
- ▽ Valve seat side
- * Required for dismantling
- ⊙ Compressed air connection
- ⊕ Mechanical position indication
- ⊕ Control electronics connection
- ⊙ Leak detection hole

L = aluminum
 L1 = stainless steel

Angle valve with electromagnetic actuator, single acting with closing spring (NC)
 DN 10 – 40 (3/8" – 1 1/2") ISO-KF



Inline valve with electromagnetic actuator, single acting with closing spring (NC)
 DN 16 – 40 (3/8" – 1 1/2") ISO-KF



	DN	10		16		25		40	
		mm	inch	3/8	5/8	1	1 1/2		
Angle valve	A	30	1.18	40	1.57	50	1.97	65	2.56
Inline valve	A	-	-	80	3.15	100	3.94	130	5.12
	B	40	1.57	40	1.57	48	1.89	65	2.56
Angle valve	D	10	0.39	16	0.63	25	0.98	40	1.57
	L	-	-	100	3.94	93	3.66	114	4.49
Inline valve	L	-	-	102.50	4.04	102.50	4.04	103.40	4.07
	L1	-	-	102.50	4.04	103.40	4.07	117	4.61
Angle valve	L	-	-	148	5.83	153	6.03	183	7.20
	L1	-	-	149.50	5.89	161	6.34	192	7.56
Q	mm	46	1.81	46	1.81	44	1.73	73.50	2.89
	inch	1.81	0.08	1.81	0.08	1.73	0.08	2.89	0.12
V	mm	96.50	3.80	106.50	4.20	116.50	4.59	131.50	5.18
	inch	3.80	0.16	4.20	0.16	4.59	0.18	5.18	0.21