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Angle valve with bellows feedthrough



Body material

aluminum or stainless steel

Manual actuator

handwheel

DN		Ordering numbers			
		aluminum		stainless steel	
mm	inch	ISO-KF	ISO-K	ISO-KF	ISO-K
16	5/8	26324-KA01		26324-KE01	
25	1	26328-KA01		26328-KE01	
40	1 1/2	26332-KA01		26332-KE01	
50	2	26334-KA01		26334-KE01	
63	2 1/2		26336-QA01		26336-QE01

Pneumatic actuator

single acting cylinder
with closing spring (NC)
without position indicator
without solenoid

16	5/8	26324-KA11		26324-KE11	
25	1	26328-KA11		26328-KE11	
40	1 1/2	26332-KA11		26332-KE11	
50	2	26334-KA11		26334-KE11	
63	2 1/2		26336-QA11		26336-QE11
100	4		26340-QA11		
160	6		26344-QA11		

valve body made of hard anodized aluminum: 26 . . . - . **H** .1
with position indicator «open/closed», without solenoid: 26 . . . - . . **2**1 [1]
with solenoid, without position indicator: 26 . . . - . . **3**1 [2]
with position indicator «open/closed», with solenoid: 26 . . . - . . **4**1 [2]
with position indicator «closed», without solenoid: 26 . . . - . . **7**1
with position indicator «closed», with solenoid: 26 . . . - . . **8**1 [2]

[1] DN 16-63: mechanical limit switches, DN 100-160: proximity switches
[2] specify control voltage

Electromagnetic actuator

aluminum body
single acting cylinder with closing spring (NC)
without position indicator
with control electronics
Voltage: 100-120 V / 50-60 Hz
200-240 V / 50-60 Hz

DN		Ordering numbers (specify control voltage)			
		standard version		special version	
mm	inch	ISO-KF	dimension A	ISO-KF	dimension A
25	1	26328-KA64	50	–	–
40	1 1/2	26332-KA64	65	26232-KA64	50

Seal kit

Consisting of seals for plate and bonnet
Ordering No.: see operating manual or price list

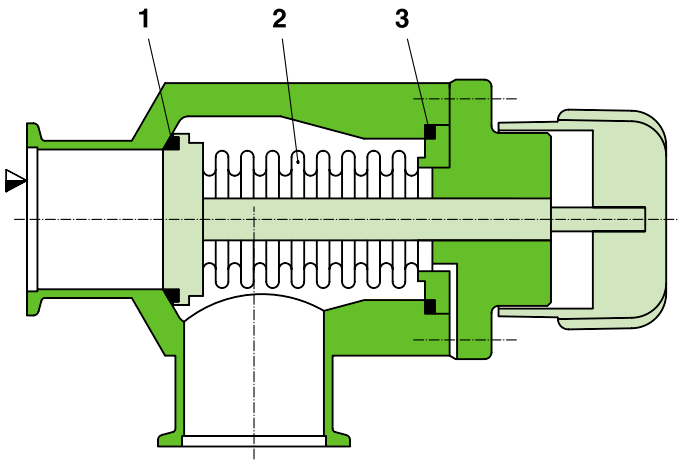
Sealing materials

Plate: VITON

Bonnet: VITON

Feedthrough

Bellows



1 plate seal
2 bellows
3 bonnet seal
▽ valve seat side

Features

Modular design

Very low outgassing rate due to body machined from extruded aluminum (DN 16 – 50)

Technical data

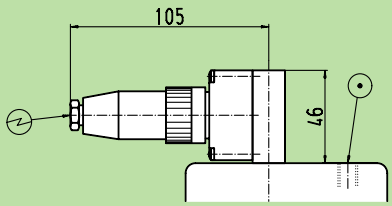
Continued next page

Technical data for valves with electromagnetic actuator on page 133

Leak rate: body, valve seat		< $1 \cdot 10^{-9}$ mbar ls^{-1}
Pressure range		
- DN 16 - 63 / 100 - 160		$1 \cdot 10^{-8}$ mbar to 5 / 4 bar (abs)
Differential pressure on the plate in opening direction		
- Manual actuator		DN 16-25: ≤5 bar, DN 40-50: ≤3 bar, DN 63: ≤2 bar
- Pneumatic actuator		DN 16-63: ≤2 bar, DN 100-160: ≤1.2 bar
in closing direction		DN 16-63: ≤5 bar, DN 100-160: ≤4 bar
Differential pressure at opening		≤ 1 bar in either direction
Cycles until first service		
- DN 16 - 40 / 50 - 160		3 / 1 million at T_{max} 80°C
Temperature		
- Valve body, actuator		≤ 150 °C
- Position indicator, solenoid		≤ 80 °C
Material		
- Valve body	DN 16 - 50	AISI 316L (1.4435/1.4404) or AlMgSi1
	DN 63	AISI 316L (1.4435/1.4404) or G-AlSi7Mg
	DN 100 - 160	GK-AlSi7Mg
- Plate		AISI 316L (1.4435) or AISI 304L (1.4306)
- Bellows		AISI 316L (1.4404)
Seal: bonnet, plate		VITON
Mounting position		any
Solenoid DN 16 - 63 / 100 - 160		24 V DC, 2.5 / 9 W (others see «options»)
Position indicator: contact rating		
	DN 16 - 63	5A/250 V AC, 3A/50 V DC
	DN 100 - 160	0.5A/50 V AC / 0.5A/75 V DC, max. 10 W
Valve position		visual (mechanical)

Pos. indicator: standard

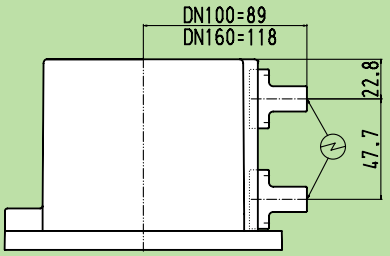
DN 16 - 63: open / closed
mechanical limit switches



One closing contact each for the open and closed valve positions

Ordering No. 263 . . - . A**2**1 and **4**1

DN 100 - 160: open / closed
proximity switches

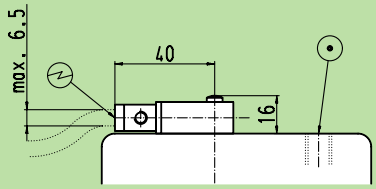


One closing contact each for the open and closed valve positions

Ordering No. 263 . . - . A**2**1 and **4**1

Pos. indicator: option

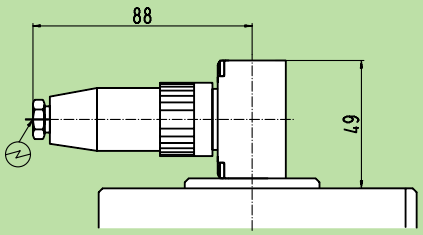
DN 16 - 160: closed
mechanical limit switch



One closing contact for the closed valve position

Ordering No. 263 . . - . A**7**1 and **8**1

DN 100 - 160: open / closed
mechanical limit switches

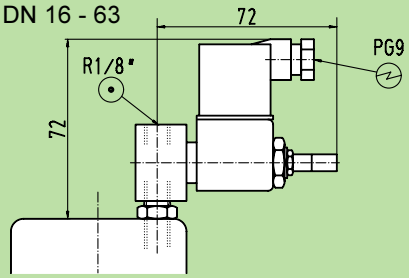


One closing contact each for the open and closed valve positions

Ordering No. 263 . . - . A**2**1 and **4**1

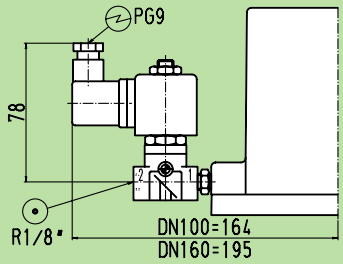
Solenoid

DN 16 - 63



Coil rotatable by 360°
Specify control voltage!
⊙ Compressed air connection
⊖ Electrical connection

DN 100 - 160



Coil rotatable by 180°
Specify control voltage!
⊙ Compressed air connection
⊖ Electrical connection

Options

Actuator:
- Solenoid for 12, 48 V DC / 24, 48, 100, 115, 200, 220 V / 50 or 60 Hz
- Pneumatic actuator with opening spring (NO) for DN 16 - 40
- Position indicator 120 °C or 150 °C with cable 0.4 m

Valve:
- Other sealing materials

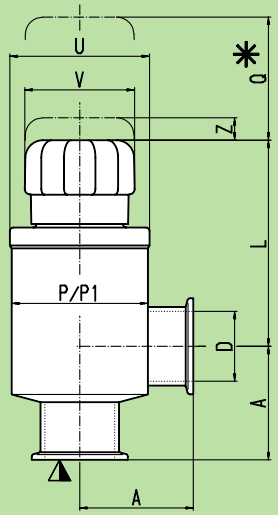
Ordering information for options:
Ordering No. of valve-X (e. g. 26336-QE21-X, X = metal bonnet seal)

Technical data

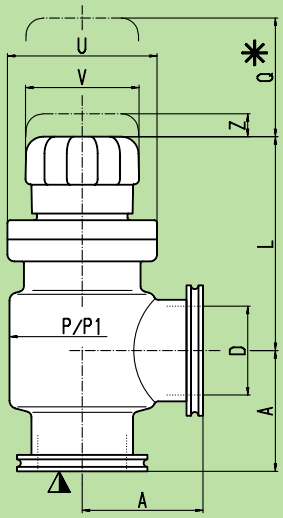
					manual					pneumatic								
DN (nom. I.D.)		standard flanges		molecular flow conductance	turns per stroke	weight aluminum body		weight stainless steel body		compressed air pressure min. - max. overpressure		volume of air cylinder		closing time	weight aluminum body		weight stainless steel body	
		ISO-KF	ISO-K															
mm	inch			ls^{-1}	n	kg	lbs	kg	lbs	bar	psi	l	ft^3	s	kg	lbs	kg	lbs
16	$^5/_8$	16		5	3	0.4	0.9	0.45	1	4 – 8	60 – 115	0.005	.0002	0.1	0.5	1.1	0.6	1.3
25	1	25		14	5	0.7	1.5	0.8	1.8	4 – 8	60 – 115	0.012	.0004	0.2	0.8	1.7	0.9	2
40	1 $^1/_2$	40		45	6	1.4	3.1	1.5	3.3	4 – 8	60 – 115	0.032	.0011	0.3	1.6	3.5	1.7	3.7
50	2	50		80	8	2.5	5.5	2.6	5.7	4 – 8	60 – 115	0.06	.0021	0.5	2.8	6.2	3	6.6
63	2 $^1/_2$		63	160	8.5	3.9	8.6	5	11	4 – 8	60 – 115	0.1	.0035	0.7	3.9	8.6	5	11
100	4		100	440	–	–	–	–	–	4 – 8	60 – 115	0.33	.0116	1	8.5	18.7	–	–
160	6		160	1000	–	–	–	–	–	4 – 8	60 – 115	1.05	.0371	2	13.8	30.4	–	–

Manual actuator

DN 16 - 50 ($^5/_8$“ - 2“) ISO-KF



DN 63 ($2^1/_2$“) ISO-K



▽ valve seat side

✳ required for dismantling

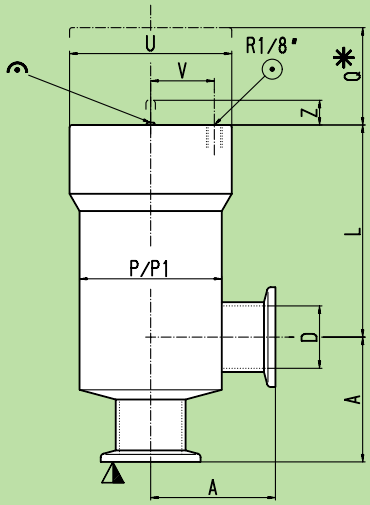
D

P = aluminum body
P1 = stainless steel body

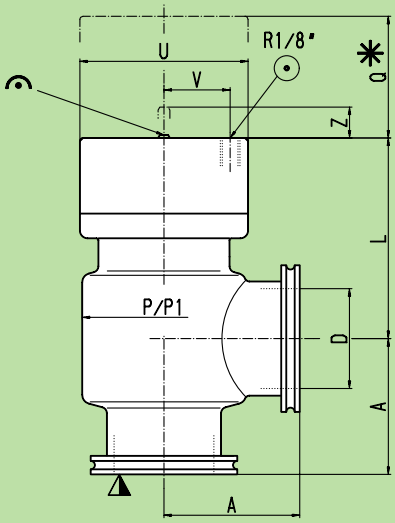
DN	mm / inch	16 / $^5/_8$	25 / 1	40 / $1^1/_2$	50 / 2	63 / $2^1/_2$
A	mm	40	50	65	70	88
	inch	1.57	1.97	2.56	2.76	3.46
D	mm	16	25	40	50	64
	inch	.63	.98	1.57	1.97	2.52
L	mm	93	103	118	136	154
	inch	3.66	4.06	4.65	5.35	6.06
P	mm	43	57	78	100	106
	inch	1.69	2.24	3.07	3.94	4.17
P1	mm	35	45	68	95	100
	inch	1.38	1.77	2.68	3.74	3.94
Q	mm	55	75	95	120	140
	inch	2.17	2.95	3.74	4.72	5.51
U	mm	47	60	82	95	109
	inch	1.85	2.36	3.23	3.74	4.29
V	mm	50	50	63	63	82
	inch	1.97	1.97	2.48	2.48	3.23
Z	mm	6.5	8.5	13.5	15	19
	inch	.26	.33	.53	.59	.75

Pneumatic actuator

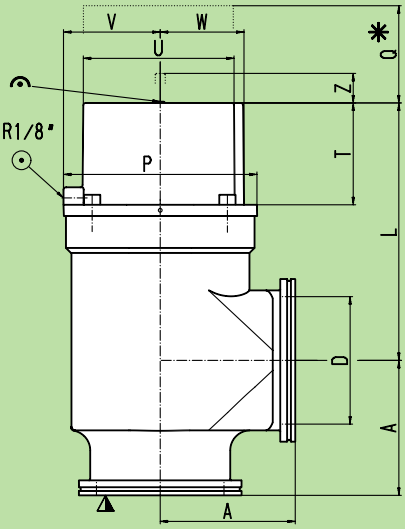
DN 16 - 50 (5/8“ - 2“) ISO-KF



DN 63 (2 1/2“) ISO-K



DN 100, 160 (4“, 6“) ISO-K



▽ valve seat side
✳ required for dismantling
mechanical position indication
⊙ compressed air connection

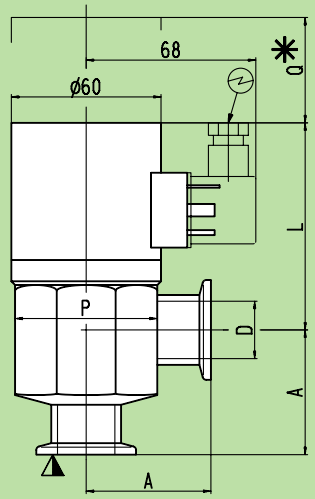
P = aluminum body
P1 = stainless steel body

Dimensions for position indicator and solenoid (DN 16 - 160) see page 130

DN		16 5/8	25 1	40 1 1/2	50 2	63 2 1/2	100 4	160 6
A	mm	40	50	65	70	88	108	138
	inch	1.57	1.97	2.56	2.76	3.46	4.25	5.43
D	mm	16	25	40	50	64	102	153
	inch	.63	.98	1.57	1.97	2.52	4.02	6.02
L	mm	68	85	97	116	130	206	202
	inch	2.68	3.35	3.82	4.57	5.12	8.11	7.95
P	mm	43	57	78	100	106	154	216
	inch	1.69	2.24	3.07	3.94	4.17	6.06	8.5
P1	mm	35	45	68	95	100	—	—
	inch	1.38	1.77	2.68	3.74	3.94	—	—
Q	mm	55	75	95	120	140	170	205
	inch	2.17	2.95	3.74	4.72	5.51	6.69	8.07
T	mm	—	—	—	—	—	81.5	86.5
	inch	—	—	—	—	—	3.2	3.41
U	mm	54	65	85	95	109	123	180
	inch	2.13	2.56	3.35	3.74	4.29	4.84	7.09
V	mm	20.5	25.5	34.5	39.5	46.5	77	108
	inch	0.81	1	1.36	1.56	1.83	3.03	4.25
Z	mm	6	8	13	14.5	18	6	6
	inch	.24	.31	.51	.57	.71	.24	.24

Electromagnetic actuator

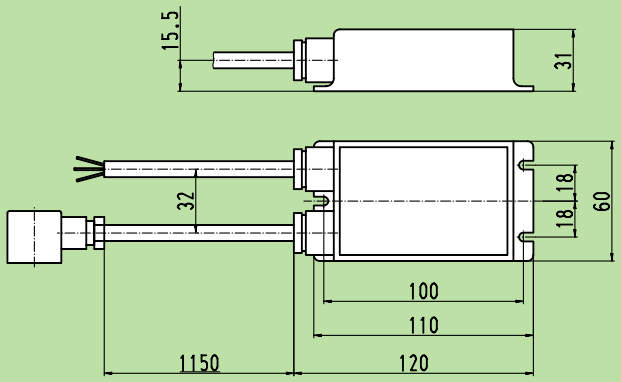
Valve

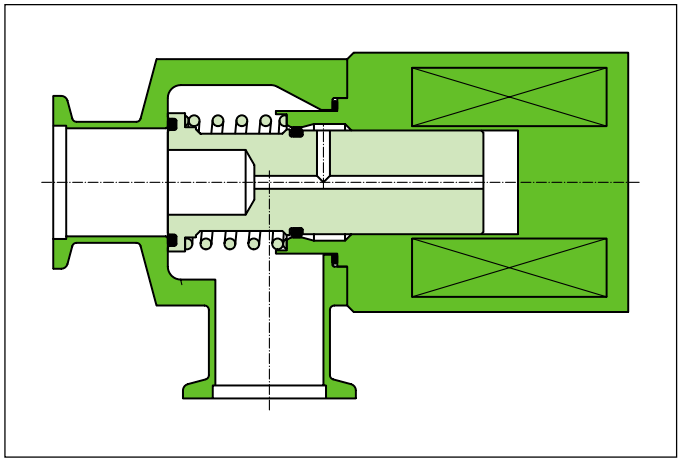


		standard version		special version
D	mm	25	40	40
	inch	1	1 1/2	1 1/2
A	mm	50	65	50
	inch	1.97	2.56	1.97
D	mm	25	40	40
	inch	.98	1.57	1.57
L	mm	83	93	93
	inch	3.27	3.66	3.66
P	mm	57	78	70
	inch	2.24	3.07	2.76
Q	mm	60	60	60
	inch	2.36	2.36	2.36

▽ valve seat side
✳ required for dismantling
⊖ electronics connection

Electronics





D

Technical data

for valves with electromagnetic actuator

Leak rate: body, valve seat		< 1 · 10^{-9} mbar ls^{-1}
Pressure range		10^{-8} mbar to 2 bar
Differential pressure on the plate		2 bar in either direction (also at opening)
Operating temperature		0 – 40 °C
Cycles until first service		200,000
Material: valve body		AlMgSi1
Seal: bonnet, plate		VITON
Mains voltage		100 - 120 V / 200 - 240 V / 50 - 60 Hz
Starting power / holding power		700 W / 8 W
Closing and opening time		0.1 s
Operating frequency		max. 15 min^{-1} at 20 °C
Weight: Valve	DN 25	1.4 kg / 3.1 lbs
	DN 40	1.8 kg / 4.0 lbs
Electronics		0.4 kg / 0.9 lbs

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