

KÜHNER

MODEL: DN15-50 / PNEUMATIC ANGLE SEAT VALVE



Advantages

- Large flux Low resistance No water-hammer
Y

Y-type shape enlarged the flowing section, which could raise the flux by 30% and make flow more smooth.

- Super long life

The valve stem material is AISI SS316L, its anti-corrosive ability is super strong. The PTFE seals are in wedge shape, which help the stem adjust and lubricate itself automatically.

- Advanced pilot cylinder

The cylinder material is stainless steel, which performs well in badly circumstance. Lubricating automatically, 360° rolling freely.

Applications

- Beer & drinks filling machinery
- Textile printing & dying
- Frothing equipment
- Gas industry
- Pharmacy & Medical equipment
- Food filling
- Rubber machinery
- Organic and inorganic chemical industry
- Disinfection
- Water/sewage disposal

Applicable Medium

- Steams
- Gases
- Liquids
- Viscous or corrosive medium

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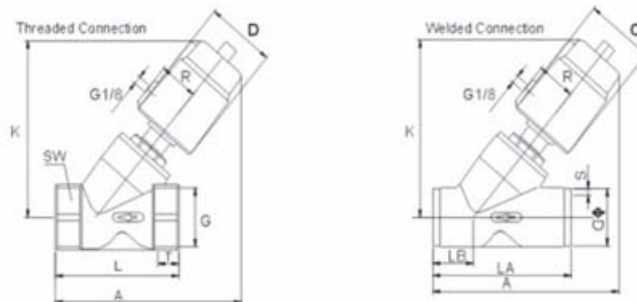
Function Principle

Valve is closed (open) with spring force, when the piston is actuated by compressed air, valve is open(closed).

Fluid pressure : PN16 (0 — 232psi)
 Control pressure : 0.3 — 0.8MPa(43.5 — 116psi)
 Fluid temperature : -10°C — +200°C
 Valve body material: CF8M
 Seals material: PTFE
 Pilot cylinder : CF8

Control type: Normally closed, Normally open, Double acting.

Design



Dimension

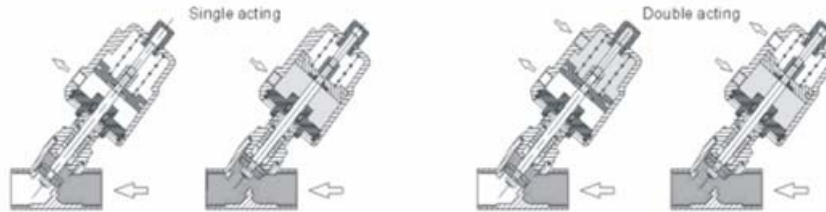
Unit:mm)

Size	Actuator	C	R	k	Threaded connection				Welded connection									
					G	T	L	SW	A	LA	LB	◇D	S	A				
DN10	40	45.5	27	113	G3/8"	12	68	26.6	119	-	-	See welded connection table on page 7	-					
	50	60	35	125					132				-	-	-			
DN15	40	45.5	27	113	G1/2"	15	68	26.6	119	70	19.5		See welded connection table on page 7	118				
	50	60	35	125					132					130				
DN20	50	60	35	128	G3/4"	16	75	32	140	82	25			See welded connection table on page 7	137			
	50	60	35	136					149						152			
DN25	63	77	43	166	G1"	17	90	40	175	100	30				See welded connection table on page 7	175		
	63	77	43	176					190							188		
DN32	90	112	57	220	G1 1/4"	21	116	50	229	125	35					See welded connection table on page 7	228	
	63	77	43	178					192								192	
DN40	90	112	57	222	G1 1/2"	20	120	56	230	130	37						See welded connection table on page 7	232
	63	77	43	185					205									209
DN50	90	112	57	232	G2"	22	138	69	244	155	45	See welded connection table on page 7						248
	63	77	43	185					205									209

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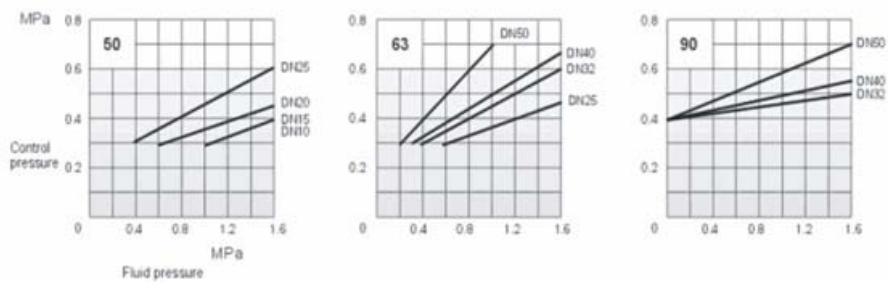
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Normally Closed (NC) - Enter Above Seat



Size	DN10	DN15	DN20	DN25	DN32	DN40	DN50									
inch	G 3/8"	G 1/2"	G 3/4"	G 1"	G 1 1/4"	G 1 1/2"	G 2"									
inner hole(mm)	Φ13	Φ13	Φ15	Φ24	Φ31	Φ35	Φ45									
KV	3.8	4.7	9.5	18.1	23.1	32.9	52.8									
Actuator (mm)	Single acting—Control pressure (MPa)							Double acting—Control pressure (MPa)								
	Size	DN10	DN15	DN20	DN25	DN32	DN40	DN50	Size	DN10	DN15	DN20	DN25	DN32	DN40	DN50
	Fluid pressure (MPa)								Fluid pressure (MPa)							
40	0-1.6	0.3-0.35	0.3-0.35						0-1.6	0.3-0.35	0.3-0.35					
50	0-1.6	0.3-0.35	0.3-0.4	0.3-0.45	0.3-0.6				0-1.6	0.3-0.4	0.3-0.4	0.3-0.45	0.3-0.6			
63	0-1.6			0.3-0.45	0.3-0.6	0.3-0.65			0-1.6				0.3-0.45	0.3-0.6	0.3-0.65	
90	0-1.6					0.3-0.65			0-1.6							0.3-0.65
	0-1.6				0.4-0.5	0.4-0.55	0.4-0.7		0-1.6							

Pressure Graph



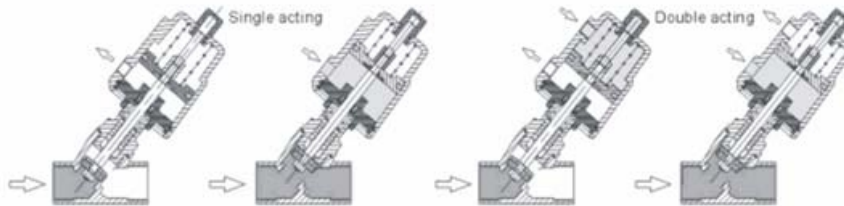
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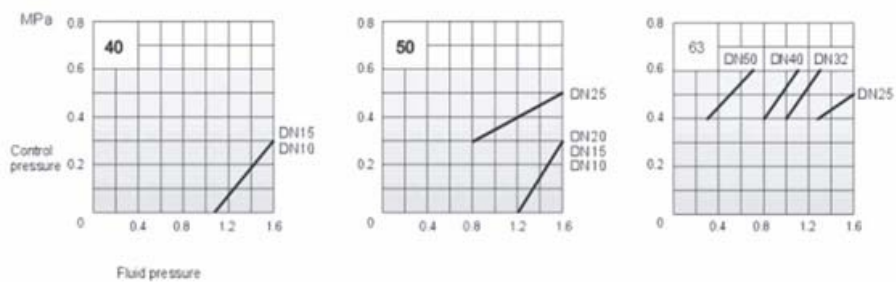
MODEL: DN15-50 / PNEUMATIC ANGLE SEAT VALVE

Normally Closed (NC) - Enter Below Seat



Size	DN10	DN15	DN20	DN25	DN32	DN40	DN50									
Inch	G 3/8"	G 1/2"	G 3/4"	G 1"	G 1 1/4"	G 1 1/2"	G 2"									
Inner hole(mm)	Φ13	Φ13	Φ15	Φ24	Φ31	Φ35	Φ45									
KV	3.8	4.7	9.5	18.1	23.1	32.9	52.8									
Actuator (mm)	Below seat—Max. fluid pressure (MPa)							Below seat—Max. fluid pressure (MPa)								
	Size	Single acting							Size	Double acting						
		Control pressure (MPa)	DN10	DN15	DN20	DN25	DN32	DN40		DN50	Control pressure (MPa)	DN10	DN15	DN20	DN25	DN32
40	≥0.3	1.1	1.1						≥0.3	1.6	1.6					
50	≥0.3	1.6	1.6	1.6	0.7				≥0.3	1.6	1.6	1.6	0.8			
									≥0.5				1.6			
63	≥0.45				1.6	0.7	0.6		0.4				1.3	1.0	0.8	
									0.5				1.6	1.1	1.0	0.6
90	≥0.5								0.6					1.3	1.1	0.7

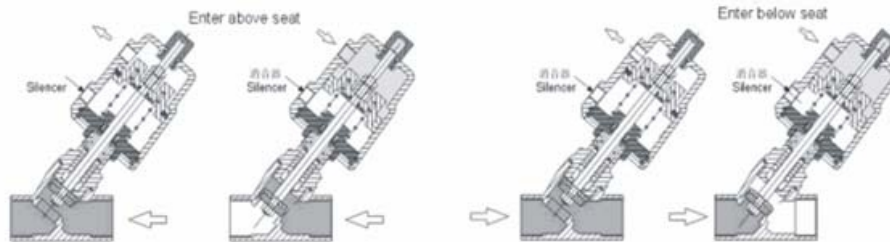
Pressure Graph



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MODEL: DN15-50 / PNEUMATIC ANGLE SEAT VALVE

Normally Open (NO) - Single Acting



Size	DN10	DN15	DN20	DN25	DN32	DN40	DN50									
Inch	G3/8"	G1/2"	G3/4"	G1"	G1 1/4"	G1 1/2"	G2"									
Inner hole(mm)	φ13	φ13	φ15	φ24	φ31	φ35	φ45									
KV	3.8	4.7	9.5	18.1	23.1	32.9	52.8									
Actuator (mm)	Above seat—Max. fluid pressure (MPa)							(MPa)								
	Size	DN10	DN15	DN20	DN25	DN32	DN40	DN50	Size	DN10	DN15	DN20	DN25	DN32	DN40	DN50
50	Control pressure (MPa)								Control pressure (MPa)							
	≥0.3	1.6	1.6	1.1					0.4	1.1	1.1	1.0	0.5			
									0.5	1.6	1.6	1.6	0.8			
63	Control pressure (MPa)								Control pressure (MPa)							
	≥0.4			1.6	1.4	1.1	0.6		0.4			1.3	0.4			
									0.5			1.6	0.8	0.6		
90	Control pressure (MPa)								Control pressure (MPa)							
	≥0.5								0.4				1.6	1.3	0.7	
									0.5					1.6	1.2	
									0.6						1.6	

Pressure Graph

