

# DK17B Welded Angle Seat Valve **INSTRUCTION MANUAL**



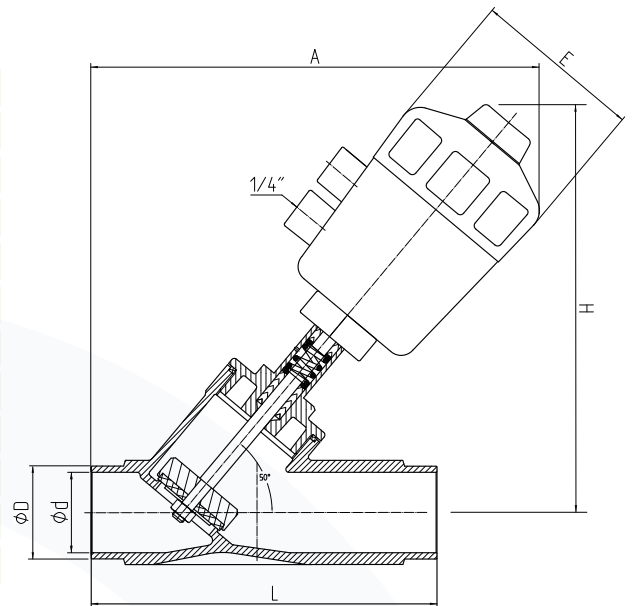
**dc DELCO**

Specialized Control Valve Manufacturer



## Technical Parameters

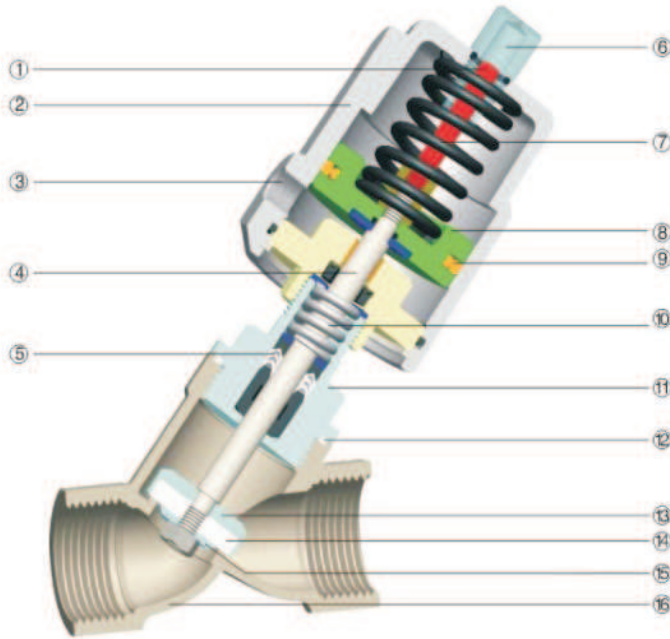
Actuator material	PolyamidePA, stainless steel
Body material	304, 316, 316L
Spool material	304, 316, 316L
Seat material	PTFE, F46
Fluid temperature	-20°~+180°C
Ambient temperature	-10°~+80°C
Controlling pressure	0.3~0.8BMPa
Working pressure	0~1.6MPa
Connection type	Welded
Control type	Single acting, Double acting
Applicable medium	water neutral gas or liquid, alcohol, oil, organic solvent, steam.
Optional accessory	Solenoid valve, limit switch box, positioner, etc.



## Outline Dimensional Drawing

Size	Inch	d	D	L	H	A	E	Actuator
DN15	1/2"	15.5	19.5	100	137	175	64	50
DN20	3/4"	21.5	26.5	120	145	180	64	50
DN25	1"	28.5	32.5	140	185	215	80	63
DN32	1-1/4"	33	38.5	155	210	235	80	63
DN40	1-1/2"	46	52	170	260	245	80	63
DN50	2"	57	64	190	300	325	100	80
DN65	2-1/2"	68	77	200	340	355	100	80
DN80	3"	82	92	220	385	400	126	100

## Uses and Stuctural Features of Product



- ① Indication Rod(nylon)
- ② Actuator(CF8)
- ③ Pilot Port(1/8")
- ④ Stem(AISI316/304)
- ⑤ Stem Seal(PTFE)
- ⑥ Cap(PC)
- ⑦ Spring(Steel 65Mn)
- ⑧ Piston(Alu,alloy)
- ⑨ Piston Seal (Viton)
- ⑩ Seal Spring(AISI304)
- ⑪ ConnectingPiece(CF8M/CF8)
- ⑫ Body Seal (PTFE)
- ⑬ Valve core(CF8M/CF8)
- ⑭ Seat(PTFE)
- ⑮ Gasket(AISI316/304)
- ⑯ Body(CF8M/CF8)

## Products Performance Specifucation



### Applications

- ◆ Beer & Drinks Filling Machinery
- ◆ Textile Printing & Dyeing
- ◆ Gas Industry
- ◆ Pharmacy & Medical Equipment
- ◆ Chemical Industry
- ◆ Disinfection
- ◆ Frothing Equipment
- ◆ Waters/Sewage Disposal

### Advantages

- ◆ Large Flux,low Resistance,No Water-hammer
- ◆ Y-type Shape Enlarged The Flowing Section, which Could Raise The Flux By 30% And Make Flow More Smooth
- ◆ Super Long Life
- ◆ Which Help The Stem Adjust And Lubricate Itself Automatically.
- ◆ The Cylinder Material Is Stainless Steel. lubricating Automatically 360°Rolling Freely.

## Techical Data

Fluid Pressure	Max 1.6 MPa (232PSI)
Control Pressure	0.3-0.8MPa (43.5-116PSI)
Control Fluid	Neutral Gas,Air
Body Material	DF8M/CF8
Seals Material	PTFE
Actuator Material	CF8
Actuator Size	40mm, 50mm, 63mm, 90mm, 125mm
Applicable Fluid	Water,Alcohol,Oil,Fuel,Steam,Neutral gas or liquid,Organic Solvent,Acid and lye
Fluid Viscosity	Max 600mm/s
Fluid Temperature	-10°C-+180°C, 25°C-+220°C
Ambient Temperature	-10°C-+180°C
Control Type	Normally Closed, Normally Open, Double Acting
Connection	Threaded (BSP,BSPT,NPT) ,Welded, Flanged, Tri-Clamp

**Warning:** When tightening any connections to the valve, DO NOT use the actuator as leverage. Doing so may damage the joint between the actuator & valve.

### Connection to Fluid Supply

1. Connect the fluid supply & outlet to the lower ports
2. Connect the controlling air supply to the ports on the actuator body, For double acting valves, air supplied to the lower port will open the valve, and air supplied to the upper port will close the valve

### General Notes

This valve is designed to be controlled by air flow on/v. Any kind of compatible fluid may flow through the main valve body.

Fluid can flow either way through the main valve body, However, it is optimal to have the flow enter from the higher port (above seat). To reduce water hammering, the flow orientation may be switched to have the flow enter from the lower port (below seat). Please review the specification charts on pages 4 & 5 for the working pressure limits for each orientation.

The pin on top of the valve inside of the top cap (see page 2) acts as a position indicator for the valve. The pin will pop up into the top cap when the valve is open.

### Reference Figures



Figure 1

2KS-1/2. Single Actuator port, with two valve Body ports.



Figure 2

2KD-1/2. Double Actuator port, with two valve Body ports.

# Seeking For Global Distributors



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