

Plastic Actuator Pneumatic Weld-End Angle Seat Valve



Product Overview

The plastic actuator pneumatic weld-end angle seat valve provides automated on-off control for air, water, steam, gases, and compatible process fluids. It combines an engineering-plastic pneumatic piston actuator with a stainless steel angle-seat body and straight weld ends for permanent pipeline installation.

The published range covers DN10 to DN100 with weld tube outside diameters from 12.7 mm to 108 mm. Weld outside diameter, inside diameter, and valve-body length can be customized for OEM pipeline requirements. Final materials, seals, pressure, temperature, and control function must be confirmed for each order.

Key Features

- Pneumatic 2/2-way on-off operation for repeated process-fluid switching.
- Straight weld-end connections provide a permanent joint without threads, clamps, or bolted flanges.
- Engineering-plastic actuator provides a compact operating structure.
- DN10 to DN100 range covers weld tube sizes from approximately 12.7 mm to 108 mm.
- Weld outside diameter, inside diameter, and valve-body length can be customized for OEM systems.
- Conventional and water-hammer-reducing flow arrangements are identified in the dimension drawing.

Technical Specifications

Parameter	Specification
Product Name	Plastic Actuator Pneumatic Weld-End Angle Seat Valve
Valve Type	Pneumatically operated angle seat shut-off valve
Valve Function	2 ports, 2 positions
Operation Type	Pneumatic piston actuator
Actuator Housing	Engineering plastic
Process Connection	Weld-end connection
Nominal Size Range	DN10 to DN100
Weld Tube Diameter Range	12.7 to 108 mm
Displayed Product Marking	DN25, PN16, 304
Body Material	Stainless steel; confirm material grade for each order
Pilot Connection	1/4 inch shown in the dimensional drawing
Control Function	Normally closed, normally open, or double acting; confirm before ordering
Working Medium	Air, water, steam, gases, and compatible process fluids
Flow Direction	Conventional or water-hammer-reducing installation
Customization	Weld outside diameter, inside diameter, and valve-body length
Typical Applications	Steam systems, water pipelines, cleaning equipment, and process machinery
Selection Checks	Confirm DN size, weld dimensions, material, seal, control function, pilot pressure, medium, process pressure, temperature, and flow direction

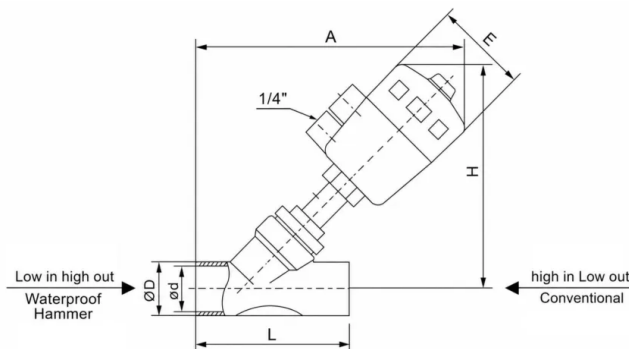
Applications

- Automated steam and hot-water pipeline switching after confirming material and operating ratings.
- Industrial washing, cleaning, sterilization-support, and heat-exchanger equipment.
- Compressed-air and compatible industrial gas-control pipelines.
- Textile machinery, filling systems, process skids, and fluid-delivery equipment.
- OEM machinery requiring customized weld dimensions and permanent pipeline connections.

Selection Checks

Confirm the DN size, weld outside and inside diameters, valve-body length, actuator size, control function, body material, seat seal, pilot pressure, working medium, process pressure, temperature, and installation direction. The displayed DN25, PN16, and 304 markings apply to the photographed sample and must not be assumed for every supplied configuration.

Dimensions and Model Selection



Model	Weld Tube O.D.	L	d	D	A	H	E	Conventional Actuator	Water-Hammer Actuator
DN10/Ø13	12.7	120	10	14	180	155	64	Ø50	Ø50
DN15/Ø19	19.05	124	15	20	185	160	64	Ø50	Ø50
DN20/Ø25	25.4	122	20	26	185	160	64	Ø50	Ø50
DN25/Ø32	31.8	144	26	33	200/230	170/275	64/80	Ø50/Ø63	Ø63
DN32/Ø38	38.1	155	33	39	240	210	80	Ø63	Ø80
DN40/Ø45	45	185	40	47	250	215	80	Ø63	Ø80
DN40/Ø51	50.8	185	46	52	250	215	80	Ø63	Ø80
DN50/Ø57	57	202	50	58	260/280	220/230	80/100	Ø63/Ø80	Ø100
DN50/Ø63	63.5	202	58	64	285	235	100	Ø80	Ø100
DN65/Ø76	76.1	230	68	78	320	270	100	Ø80	Ø100
DN80/Ø89	88.9	250	83	92	360	310	126	Ø100	Ø125
DN100/Ø108	108	280	101	112	380	330	126	Ø100	Ø125

All dimensions are in millimetres. Weld dimensions and valve-body length can be customized for customer pipelines.

Installation Notes

- Remove the actuator before welding the valve body into the pipeline, then reinstall it after the body has cooled.
- Align the weld ends and protect the valve seat and internal components from welding heat and debris.
- Install according to the approved conventional or water-hammer-reducing flow direction.
- Supply clean, regulated pilot air through the 1/4-inch actuator connection and verify material, seal, pressure, and temperature compatibility.

Contact Information

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