YGV100

Stainless steel DN15-DN50 • CE, PED

General

- High-quality industrial angle seat valve with mounted stainless steel pneumatic actuator
- Available with threaded, DIN, or SMS3008 welded ends
- Compact installation dimensions
- Made entirely of stainless steel with PTFE seat
- Single-acting pneumatic actuator
- Indicator top for displaying open/close function
- "Live-load" packing gland
- Flow above seat

Connection

1/2"-2":	BSPP thread
DN20-DN50:	SMS3008 welding
DN15-DN50:	DIN 1127 welding

Connection for air supply to actuator

1/2"-2" :	1/8"G

Pressure / rating

1/2"-2" :	PN16

Options on request

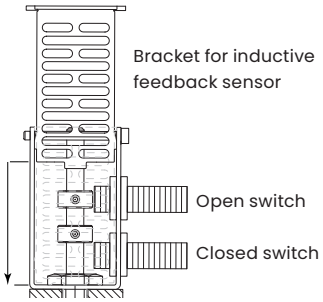
Dimensions:	3/8" and 2-1/2" til 4"
Actuator:	Double acting, SIngle acting (flow below seat)
Seat:	CPTFE, EPDM
Connection:	NPT, ISO11850, ASME Sch.

Temperature

-20° C to 180° C

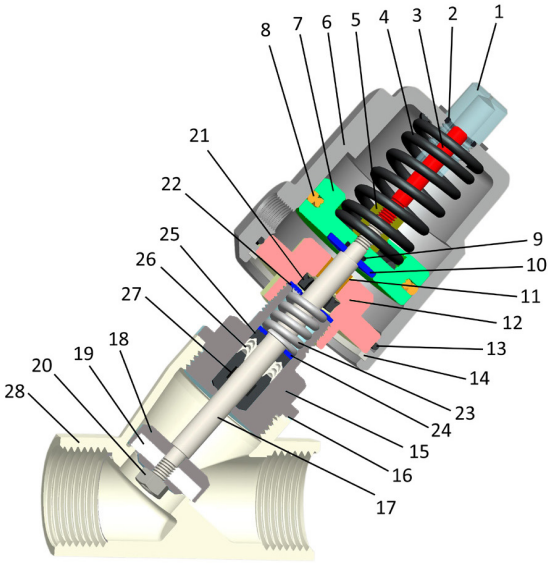
Accessories

- Inductive feedback
- Solenoid valve



Materials

Pos	Description	Material
1	Indicator window	Polycarbonat / Stainless steel
2	O-ring	NBR
3	Indicator shaft	Nylon
4	Actuator spring	Steel 65Mn
5	Lock nut	Aluminium
6	Actuator cylinder	Stainless steell CF8
7	Piston	Aluminium
8	Piston seal	FPM
9	O-ring	NBR
10	Bushing	Stainless steel AISI304
11	Slide bearing	Cobber
12	Cylinder cover	Stainless steel AISI304
13	O-ring	NBR
14	Lock ring	Stainless steel AISI304
15	Valve cover	Stainless steel 1.4408
16	Gasket	PTFE
17	Spindle	Stainless steel AISI316
18	Valve cone	Stainless steel AISI316
19	Valve seat	PTFE
20	Lock Nut	Stainless steel A4
21	Actuator gasket	FPM
22	Holding plate	Stainless steel AISI304
23	Packing gland	Stainless steel AISI304
24	Washer	Stainless steel AISI304
25	Upper packing	CPTFE
26	V-rings	PTFE
27	Lower packing gland	CPTFE
28	Body	Stainless steel 1.4408



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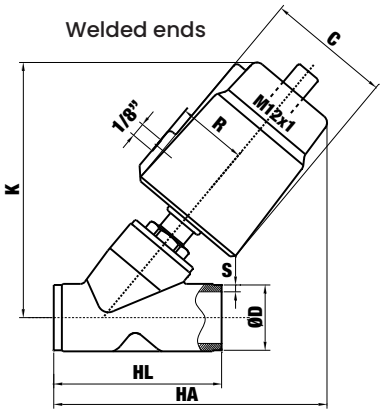
Dimensions



SMS 3008 Welded Ends

Dimension	HA [mm]	C [mm]	ØD	S	K [mm]	HL [mm]	R [mm]	Actuator diameter
ø25	142.0	60.0	25.0	1.2	128.0	95.0	33.0	50
ø38	206.0	75.0	38.0	1.2	175.0	160.0	41.0	63
ø51	224.0	75.0	51.0	1.2	183.0	175.0	41.0	63

DIN 1127 Welded Ends

Dimension	HA [mm]	C [mm]	ØD	S	K [mm]	HL [mm]	R [mm]	Actuator diameter
DN15	131.0	60.0	21.3	1.6	112.0	70.0	33.0	50
DN20	136.0	60.0	26.9	1.6	125.0	82.0	33.0	50
DN25	145.0	60.0	33.7	2.0	132.0	100.0	33.0	50

Dimension	Actuator diamater [mm]	Maximum differential pressure [bar]		Min. control air pressure [Bar]	Orifice diameter [ø mm]	Kv value* [m3/t]	Weight [kg]
		pressure above seat	pressure below seat				
1/2"	50	16	14	3.0	13	4.7	1.00
3/4"	50	16	7	3.0	18	9.5	1.12
1"	50	16	1	3.0	24	18.1	1.47
1"	63	16	5	3.0...4.5	24	18.1	2.07
1-1/4"	63	16	1	3.0...4.5	31	23.1	2.68
1-1/2"	63	16	1	3.0...4.5	35	32.9	2.81
2"	63	12	Not suitable	3.0	45	52.8	3.80
2"	90	16	Not suitable	2.5	45	52.8	5.36

* The Kv-value is measured at a differential pressure of 1 bar.

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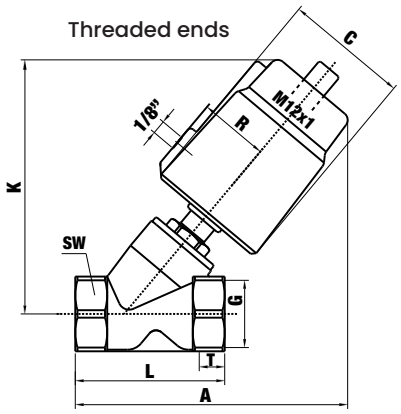
Dimensions



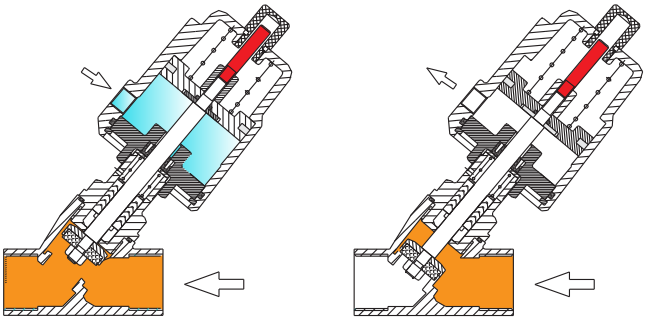
Threaded Ends

Dimension	A [mm]	C [mm]	G [BSPP]	K [mm]	L [mm]	SW [mm]	R [mm]	T [mm]	Actuator diameter
1/2"	131.0	60.0	1/2"	124.0	68.0	27.0	33.0	15.0	50
3/4"	136.0	60.0	3/4"	128.0	75.0	32.0	33.0	16.0	50
1"	145.0	60.0	1"	136.0	90.0	40.0	33.0	17.0	50
1"	169.0	75.0	1"	162.0	90.0	40.0	41.0	17.0	63
1-1/4"	187.0	75.0	1-1/4"	174.0	116.0	50.0	41.0	21.0	63
1-1/2"	187.0	75.0	1-1/2"	175.0	116.0	56.0	41.0	21.0	63
2"	201.0	75.0	2"	183.0	138.0	69.0	41.0	22.0	63

Flow below- / above the seat

The angle seat valve from MODU is primarily designed for a media flow above the seat, as the pressure will assist the valve in closing.
However, the angle seat valve can be used to a limited extent for pressure below the seat, but only for the values specified in the table.

If you wish to utilize the angle seat valve at higher pressures below the seat than the specified values, the actuator can be supplied with a stronger spring pack. Please contact MODU Valves regarding special requests.



Single acting, NC, flow above the seat

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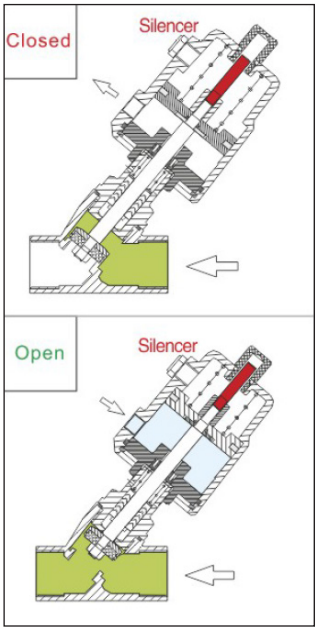
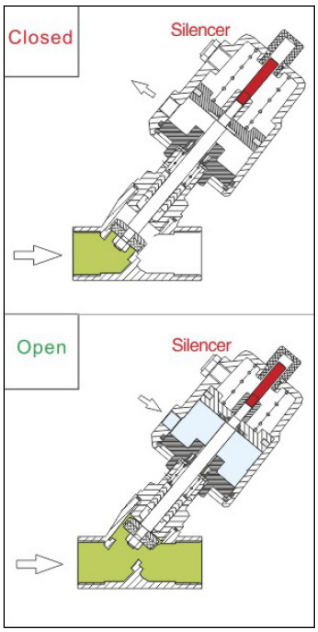
Single Acting, Normally Closed (NC)–Flow Above Seat

Size	Thread end	Orifice (mm)	Flow value Kv(m3/h)	Actuator (mm)	Differential pressure range P (bar)	Control pressure (bar)
DN8	G1/4"	9,5	1,8	28	0.0–10.0	5.0–7.0
DN8	G1/4"	13	2,2	40	0.0–16.0	4.0–4.5
DN10	G3/8"	9,5	2,2	28	0.0–10.0	5.0–7.0
DN10	G3/8"	13	3,9	50	0.0–16.0	4.0–4.5
DN15	G1/2"	9,5	2,2	28	0.0–10.0	5.0–7.0
DN15	G1/2"	13	4,3	40	0.0–16.0	4.0–4.5
DN20	G3/4"	18	7,6	50	0.0–16.0	3.5–4.0
DN25	G1"	24	15,8	50	0.0–16.0	3.5–5.5
DN32	G1 1/4"	31	26	63	0.0–16.0	3.0–5.5
DN40	G1 1/2"	35	32	63	0.0–16.0	3.0–7.0
DN50	G2"	45	52	63	0.0–9.0	3.0–4.5
DN65	G2 1/2"	61	83,2	90	0.0–10.0	3.0–6.0
DN80	G3"	80	119	125	0.0–12.0	3.0–7.0



Single Acting, Normally Closed (NC)–Flow Below Seat (Minimize water-hammer)

Size	Thread end	Orifice (mm)	Flow value Kv(m3/h)	Actuator (mm)	Differential pressure range P (bar)	Control pressure (bar)
DN8	G1/4"	9,5	1,8	28–A	0.0–10.0	≥5.0
DN8	G1/4"	13	2,2	40–A	0.0–13.0	≥4.0
DN10	G3/8"	9,5	2,2	28–A	0.0–10.0	≥5.0
DN10	G3/8"	13	3,9	50–A	0.0–13.0	≥4.0
DN15	G1/2"	9,5	2,2	28–A	0.0–10.0	≥5.0
DN15	G1/2"	13	4,3	50–A	0.0–14.0	≥4.5
DN20	G3/4"	18	7,6	50–A	0.0–14.0	≥4.5
DN25	G1"	24	15,8	63–A	0.0–13.0	≥5.0
DN25	G1"	24	15,8	63–B	0.0–8.0	≥3.0
DN32	G1 1/4"	31	26	90–A	0.0–16.0	≥6.0
DN32	G1 1/4"	31	26	90–B	0.0–13.0	≥4.5
DN40	G1 1/2"	35	32	90–A	0.0–16.0	≥6.0
DN40	G1 1/2"	35	32	90–B	0.0–11.0	≥4.5
DN50	G2"	45	52	90–A	0.0–7.0	≥4.5
DN50	G2"	45	52	125–A	0.0–16.0	≥6.0
DN50	G2"	45	52	125–B	0.0–11.0	≥4.5
DN65	G2 1/2"	61	83,2	125–A	0.0–9.0	≥5.5
DN65	G2 1/2"	61	83,2	125–B	0.0–5.0	≥3.5
DN65	G2 1/2"	61	83,2	125–D	0.0–6.0	≥5.5
DN80	G3"	80	119	125–A	0.0–5.0	≥5.5
DN80	G3"	80	119	125–B	0.0–2.0	≥4.0
DN80	G3"	80	119	125–C	0.0–2.0	≥4.0
DN100	G4"	90	132	125–A	0.0–2.5	≥5.5



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