

ZS-15

Flow Direction Shut-off Valve

The ZS-15 valve is a pneumatic shut-off seat valve for hygienic applications. The valve is designed for the direction of product flow from the upper to the lower body. To avoid the effect of water hammer, the valve closes against the flow.

DESIGN AND FEATURES

Gasket with specific profile guarantees reliability under adverse working conditions.
Hygienic design of the gasket ensures optimal cleaning.
Single-acting pneumatic actuator.
Normally closed valve (NC).

The valve can be changed to normally open (NO) by simply reversing the position of the pneumatic actuator.
Easy assembly/disassembly of internal parts by loosening a clamp fastener.
Open lantern allows visual inspection of shaft sealing.
360º adjustable body.

TECHNICAL SPECIFICATIONS

Materials

Parts in contact with the product	1.4404 (AISI 316L)
Other stainless steel parts	1.4301 (AISI 304)
Gaskets in contact with the product	EPDM

Surface finish

Internal	Bright polish Ra ≤ 0,8 µm
External	Matt

Availables sizes

DIN EN 10357 series A (previously DIN 11850 series 2)	DN 25 - DN 100
ASTM A269/270 (correspondsto OD pipe)	OD 1'' - OD 4''

Connections

Weld

The information provided is for guidance purposes only. We reserve the right to modify any materials or features without prior notice.
Photographs are for illustrative purposes only and are not binding. For further information, please visit our website at www.thezeev.com

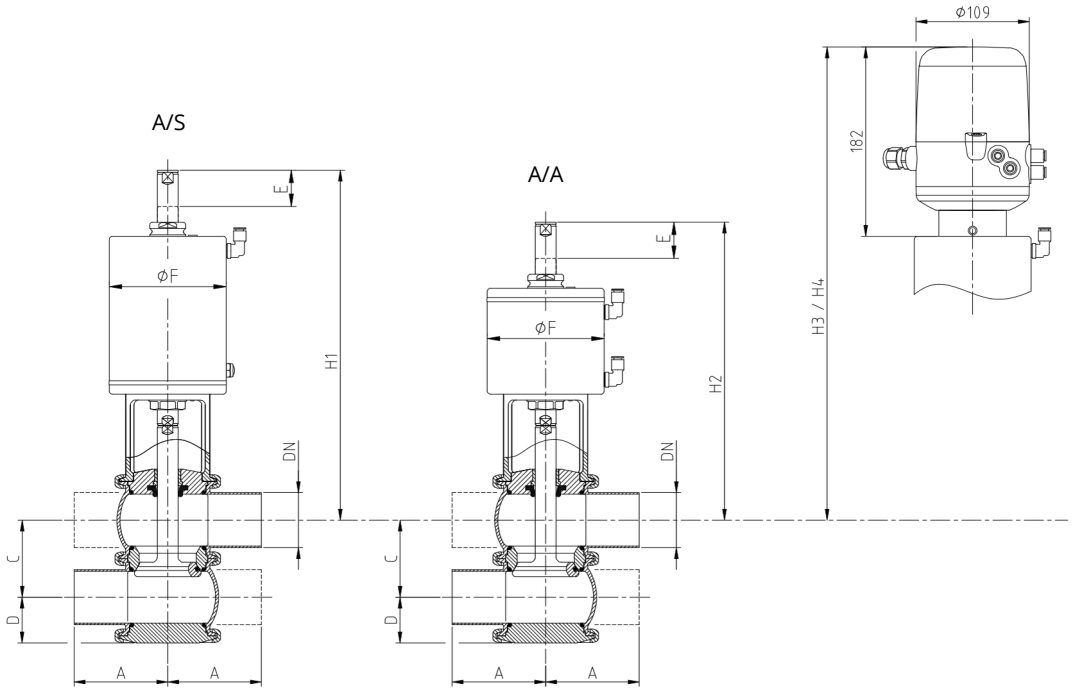
Operating limits

Temperature range	-10ºC to 121ºC	14ºF to 250ºF
Temperature SIP	140ºC (maximum 30 minutes)	284ºF
Maximum working pressure	1000 kPa (10 bar)	145 PSI
Minimum working pressure	Vacuum	Vacuum
Compressed air pressure	6 - 8 bar	87 - 116 PSI
Air connections	G 1/8 (BSP)	G 1/8 (BSP)

OPTIONS

Double-acting pneumatic actuator.
Gaskets: FPM, HNBR.
Other connection types.
Control unit.
External position sensors.
Surface finish: Ra < 0,5 µm.
Steam barrier.
Bodies with heating jacket.

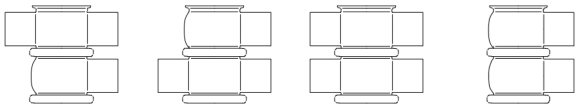
DIMENSIONS



										A/S	A/A	A/S	A/A
	DN	Pipe	A	C	D	E	ØF	H1	H2	H3	H4	kg	kg
DIN	25	29,0 x 1,50	50	50	32	9	87	257	227	399	369	5,0	4,3
	40	41,0 x 1,50	85	62	38	18	87	274	244	408	378	6,4	5,7
	50	53,0 x 1,50	90	74	44	29	113	334	284	457	407	9,9	8,3
	65	70,0 x 2,00	110	92	53	27	136	347	297	472	422	15,6	12,9
	80	85,0 x 2,00	125	107	60	24	136	351	301	479	429	17,8	15,1
	100	104 x 2,00	150	127	70	31	166	380	330	501	451	26,1	22,0
OD	1”	25,4 x 1,65	50	46	30	13	87	259	229	397	367	5,0	4,3
	1½”	38,1 x 1,65	85	59	36	21	87	276	246	407	377	6,4	5,7
	2”	50,8 x 1,65	90	72	43	31	113	335	285	456	406	9,9	8,3
	2½”	63,5 x 1,65	110	86	50	33	136	350	300	469	419	15,4	12,7
	3”	76,2 x 1,65	125	99	56	32	136	356	306	475	425	17,5	14,8
	4”	101,6 x 2,11	150	124	69	33	166	381	331	500	450	26,0	21,9

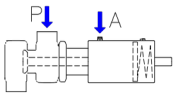
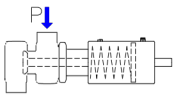
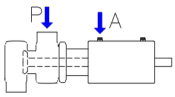
The information provided is for guidance purposes only. We reserve the right to modify any materials or features without prior notice.
Photographs are for illustrative purposes only and are not binding. For further information, please visit our website at www.thezeev.com

HOUSING COMBINATIONS

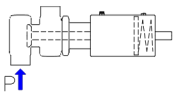
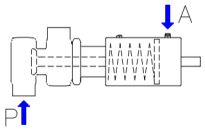


MAXIMUM PRESSURES

Maximum pressure in bar / PSI without leakage at the valve seat

Actuator / valve body combination and direction of pressure	Air pressure [bar] / [PSI]	Plug position	DN 25 OD 1''	DN 40 OD 1½''	DN 50DN 65 OD 2''OD 2½''		DN 80 OD 3''	DN 100 OD 4''
			[bar] / [PSI]					
	6 / 87	NO	10 / 145	9 / 130	10 / 145	7,9 / 114	6,7 / 98	6 / 87
	6 / 87	NC	10 / 145	6,2 / 89	6,1 / 89	4,8 / 70	4,2 / 60	4,5 / 66
	6 / 87	A/A	10 / 145	10 / 145	10 / 145	10 / 145	10 / 145	10 / 145

Maximum pressure in bar / PSI against which the valve can open

Actuator / valve body combination and direction of pressure	Air pressure [bar] / [PSI]	Plug position	DN 25 OD 1''	DN 40 OD 1½''	DN 50DN 65 OD 2''OD 2½''		DN 80 OD 3''	DN 100 OD 4''
			[bar] / [PSI]					
	6 / 87	NO	10 / 145	7,4 / 108	7 / 102	5,9 / 86	5,1 / 74	5,7 / 83
	6 / 87	NC	10 / 145	9,9 / 144	10 / 145	8,7 / 127	7,6 / 110	7,1 / 103

A ≡ air
P ≡ product pressure
NC ≡ normally closed open
NO ≡ normally open valve
A/A ≡ double acting valve
Values for standard actuators
For other pressures, bigger actuators can be assembled

The information provided is for guidance purposes only. We reserve the right to modify any materials or features without prior notice.
Photographs are for illustrative purposes only and are not binding. For further information, please visit our website at www.thezeev.com