



I Application

The divert seat valve is a hygienic single seat pneumatically operated valve with a wide range of applications in the food-processing industry, beverage production, pharmaceutical and fine chemicals industries.

I Operating principle

Seat valves are operated automatically by a single-acting or a double-acting pneumatic actuator. By supplying compressed air, the shaft is moved to place the valve in the "open" or "closed" position.

The 180° rotation of the pneumatic cylinder of single-acting actuators allows to have a normally open or normally closed valve.

I Design and features

Compact and robust design.

Normally closed valve (NC) in the standard version.

The valve can be changed to normally open (NO) by simply reversing the position of the pneumatic actuator.

Standard connections: weld (mm or inches).

Available sizes: from DN 25 / 1" to DN 100 / 4".

Easy assembly/disassembly of internal parts by loosening a clamp fastener.

Open lantern allows visual inspection of shaft sealing.

360° adjustable body.

I Materials

Parts in contact with the product	AISI 316L
Other parts in stainless steel	AISI 304
Gasket	EPDM according to FDA 177.2600
Internal surface finish	$Ra \leq 0,8 \mu m$
External surface finish	bright polish

I Options

Double-acting pneumatic actuator.

Manual actuation.

Gaskets: FPM in compliance with FDA 177.2600.

Connections: DIN, Clamp, SMS, RJT, FIL-IDF, etc.

"Twin-Stop" actuator.

C-TOP control unit.

External position sensors.

Steam barrier (if shaft sterilisation is required).

Jacketed body.

Surface finish: $Ra \leq 0,5$.

Material and roughness certificates.

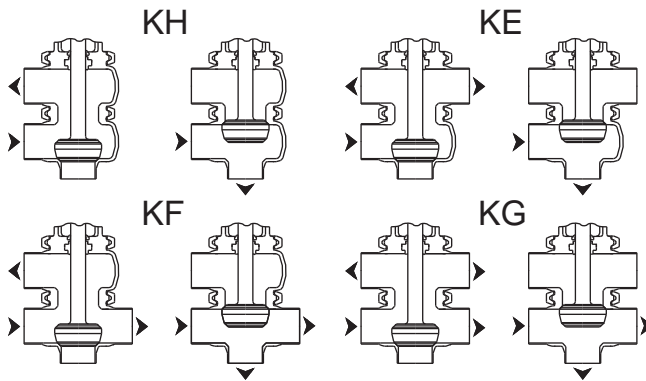
Option:
manual actuation



I Technical specifications

Available sizes	DN 25 - DN 100	DN 1" - DN 4"
Working temperature	-10 °C to +120 °C (EPDM) +140 °C (SIP, max. 30 min)	14 °F to 248 °F 284 °F
Max. working pressure	10 bar	145 PSI
Compressed air pressure	6-8 bar	87-116 PSI
Air connectons	G1/8" (BSP)	

I Various configurations of bodies

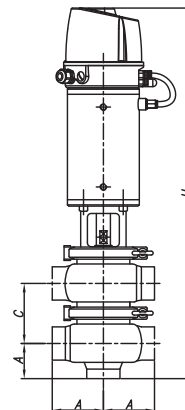
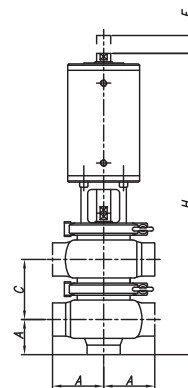


DN	A	C	E	H
25	50	56	22	330
40	60	68	22	356
50	70	84	32	442
65	80	100	36	522
80	90	115	36	555
100	125	138	36	620

DN	A	C	E	H
1"	50	56	22	330
1½"	60	68	22	356
2"	70	84	32	442
2½"	80	100	36	522
3"	90	115	36	555
4"	125	138	36	620

DN	A	C	E	H
25	50	56	22	430
40	60	68	22	456
50	70	84	32	542
65	80	100	36	622
80	90	115	36	655
100	125	138	36	720

DN	A	C	E	H
1"	50	56	22	430
1½"	60	68	22	456
2"	70	84	32	542
2½"	80	100	36	622
3"	90	115	36	655
4"	125	138	36	720



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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 1" DN 25	DN 1½" DN 40	DN 2" DN 50	DN 2½" DN 65	DN 3" DN 80	DN 4" DN 100
			[bar] / [PSI]	[bar] / [PSI]	[bar] / [PSI]	[bar] / [PSI]	[bar] / [PSI]	[bar] / [PSI]
	-	NC	6 / 87	4 / 58	5 / 73	6,5 / 94	4 / 58	5 / 73
	6 / 87	NC	10 / 145	10 / 145	8 / 116	6,5 / 94	5 / 73	10 / 145
	-	NO	9 / 131	5 / 73	5 / 73	4 / 58	3,5 / 51	4 / 58
	6 / 87	NO	10 / 145	8 / 116	8 / 116	10 / 145	5,5 / 80	10 / 145
	6 / 87	A/A	10 / 145	10 / 145	10 / 145	10 / 145	10 / 145	10 / 145
	6 / 87	A/A	10 / 145	10 / 145	10 / 145	10 / 145	10 / 145	10 / 145

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

Actuator / valve body combination and direction of pressure	Air pressure [bar] / [PSI]	Plug position	DN 1" DN 25	DN 1½" DN 40	DN 2" DN 50	DN 2½" DN 65	DN 3" DN 80	DN 4" DN 100
			[bar] / [PSI]	[bar] / [PSI]	[bar] / [PSI]	[bar] / [PSI]	[bar] / [PSI]	[bar] / [PSI]
	-	NC	10 / 145	6 / 87	10 / 145	6,5 / 94	6,5 / 94	6 / 87
	6 / 87	NC	10 / 145	10 / 145	10 / 145	10 / 145	8 / 116	10 / 145
	-	NO	10 / 145	8 / 116	10 / 145	9,5 / 138	5,5 / 80	6 / 87
	6 / 87	NO	10 / 145	10 / 145	10 / 145	9 / 131	8 / 116	10 / 145

A = Air
 P = Product pressure
 NC = Normally closed
 NO = Normally open
 A/A = Double acting

Note: Values valid for standard actuators.
 For other pressures, bigger actuators can be assembled.
 Consult Inoxpa.



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