Divert Single Seat Valve

INNOVA K

I Application

The INNOVA K-type valve is a pneumatic divert seat valve designed for hygienic applications.

I Design and features

Hygienic design according to EHEDG.
Gasket with specific profile guarantees reliability under adverse working conditions.
Hygienic design of the gasket ensures optimal cleaning.
Single-acting pneumatic actuator.
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.
360° adjustable body.
The valve is authorized to carry 3-A symbol.
Note: Consult the options of the valves authorized to carry 3-A symbol.

3-A®
Standard Number 53-06

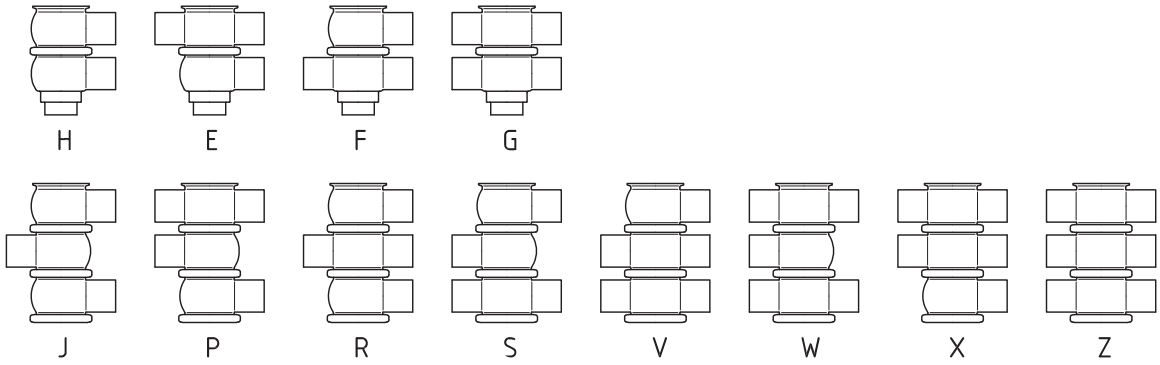
I Technical specifications

Materials:		
Parts in contact witht the product	*AISI 316L (1.4404)*	
Other stainless steel parts	*AISI 304 (1.4301)*	
Gasket	*EPDM*	
Surface finish:		
Internal	*Bright polish Ra ≤ 0,8 µm*	
External	*Matt*	
Available sizes:		
DIN 11850	*DN 25 - DN 100*	
ASME BPE	*OD 1" - OD 4"*	
Connections	*Weld*	
Operating limits:		
Temperature range	*-10 °C to+ 121 °C (EPDM)*	*14 °F to 250°F*
	+140 °C (SIP, max. 30 min)	*284 °F*
Maximum working pressure	*10 bar*	*145 PSI*
Minimum working pressure	*Vacuum*	
Compresssed air pressure	*6-8 bar*	*87-116 PSI*

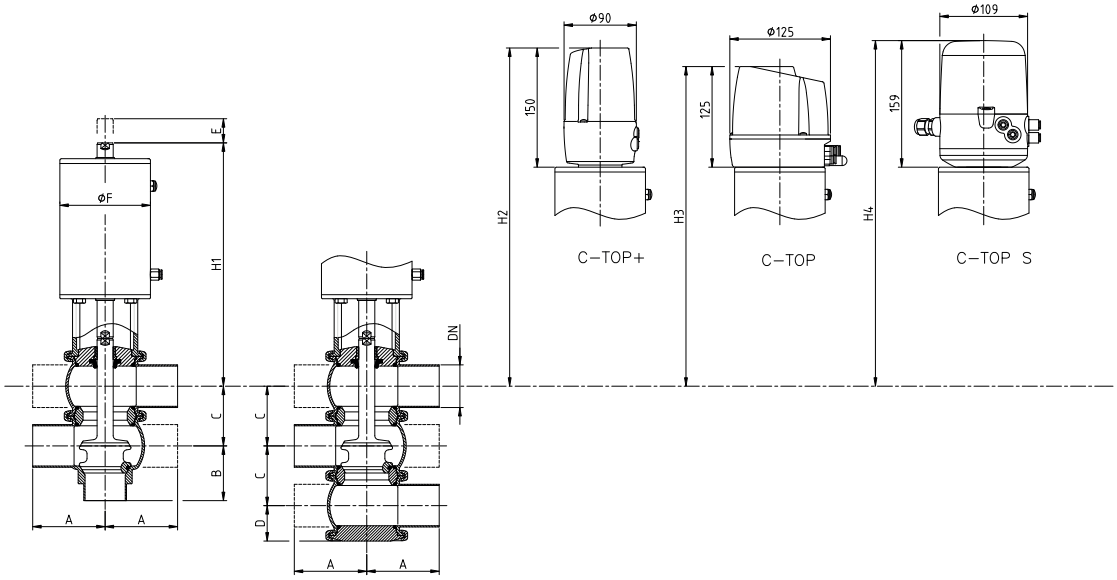
I Options

Double-acting pneumatic actuator.
Gaskets: FPM, HNBR.
Other connection types.
Control unit: C-TOP, C-TOP+ and C-TOP S.
External position sensors.
Surface finish: Ra ≤ 0,5 µm.

I Housing combinations



I Dimensions



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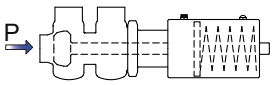
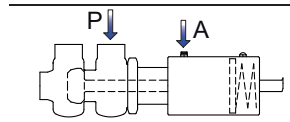
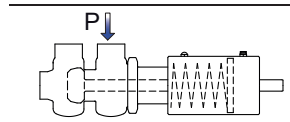
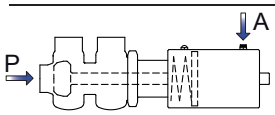
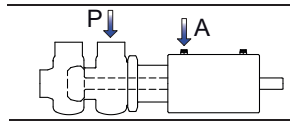
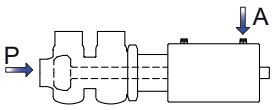
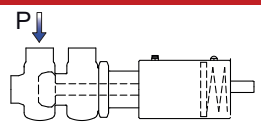
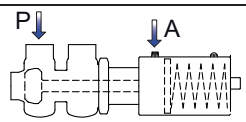
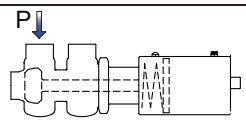
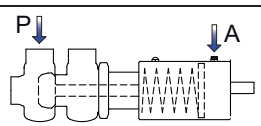
	DN	Pipe Ø	A	B	C	D	ØF	E	H_1	H_2	H_3	H_4	kg
DN	25	29 x 1,5	50	50	50	32	87	18	230	367	342	376	5,2
	40	41 x 1,5	85	60	62	38	87	20	240	377	352	386	6,6
	50	53 x 1,5	90	68	74	44	112	26	302	433	408	442	11
	65	70 x 2,0	110	81	92	53	143	29	348	485	460	494	19
	80	85 x 2,0	125	90	107	60	143	27	355	492	467	501	22
	100	104 x 2,0	150	125	127	70	216	29	382	516	491	525	39
OD	1”	25,4 x 1,65	50	50	46	30	87	14	236	369	344	378	5,2
	1½”	38,1 x 1,65	85	60	59	36	87	17	245	379	354	388	6,6
	2”	50,8 x 1,65	90	68	72	43	112	23	306	434	409	443	11
	2½”	63,5 x 1,65	110	81	86	50	143	23	356	488	463	497	19
	3”	76,2 x 1,65	125	90	99	56	143	19	367	496	471	505	22
	4”	101,6 x 2,11	150	125	124	69	216	26	386	517	492	526	39

**The weights correspond to the “H” housing combination.*

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	OD 1″ DN 25 [bar] / [PSI]	OD 1½″ DN 40 [bar] / [PSI]	OD 2″ DN 50 [bar] / [PSI]	OD 2½″ DN 65 [bar] / [PSI]	OD 3″ DN 80 [bar] / [PSI]	OD 4″ DN 100 [bar] / [PSI]
	-	NC	10 / 145	5,7 / 82	5,1 / 74	5,1 / 74	4,4 / 64	4,7 / 68
	6 / 87	NC	10 / 145	7,4 / 107	4,5 / 65	5,6 / 81	4,7 / 68	10 / 145
	-	NO	10 / 145	6 / 87	6,1 / 89	6,3 / 91	5,3 / 77	5,6 / 81
	6 / 87	NO	10 / 145	8,2 / 119	5,6 / 81	5,9 / 85	5,2 / 76	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 against which the valve can open.

Actuator/valve body combination and direction of pressure	Air pressure [bar] / [PSI]	Plug position	OD 1″ DN 25 [bar] / [PSI]	OD 1½″ DN 40 [bar] / [PSI]	OD 2″ DN 50 [bar] / [PSI]	OD 2½″ DN 65 [bar] / [PSI]	OD 3″ DN 80 [bar] / [PSI]	OD 4″ DN 100 [bar] / [PSI]
	-	NC	10 / 145	7,9 / 115	10 / 145	9 / 131	7,6 / 110	7,7 / 111
	6 / 87	NC	10 / 145	10 / 145	10 / 145	8,6 / 125	7,7 / 111	10 / 145
	-	NO	10 / 145	7,1 / 102	10 / 145	8,3 / 121	7,1 / 102	5,4 / 78
	6 / 87	NO	10 / 145	9,1 / 132	9,7 / 141	8,4 / 121	7 / 102	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.