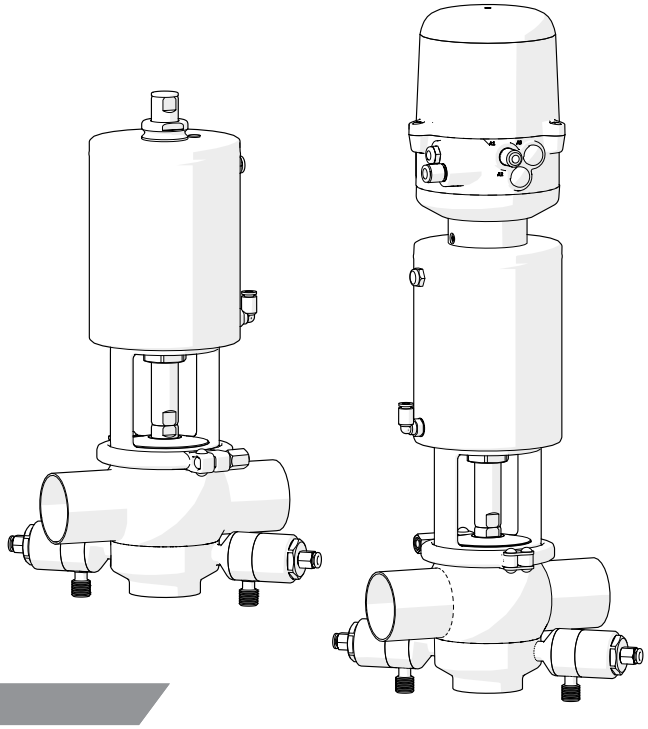
INNOVA D

Double Seal Mixproof Valve



APPLICATION

The INNOVA D-type valve is a pneumatic shut-off single seat valve with two seals that, by means of a leakage chamber under atmospheric pressure formed between the two seals, enables a safe separation of two different products, one of which is usually CIP (cleaning medium).
Compressed air is simultaneously applied to the actuator and to the leakage valves to prevent leakage through the leakage valve when the valve opens. Valve open - leakage valves closed / valve closed - leakage valves open.
The leakage chamber can be cleaned through one of the two available leakage valves.

DESIGN AND FEATURES

Specific profile seat seals, conical upper seal, radial lower seal.
Main valve with single acting actuator (NC) and normally open leakage valves (NO).
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)
Gasket	EPDM
Surface finish	
Internal	Bright polish Ra ≤ 0,8 µm
External	Matt
Available sizes	
DIN EN 10357 series A (previously DIN 11850 series 2)	DN 25 - DN 100
ASTM A269/270 (corresponds to OD pipe)	OD 1” - OD 4”
Connections	
Weld	

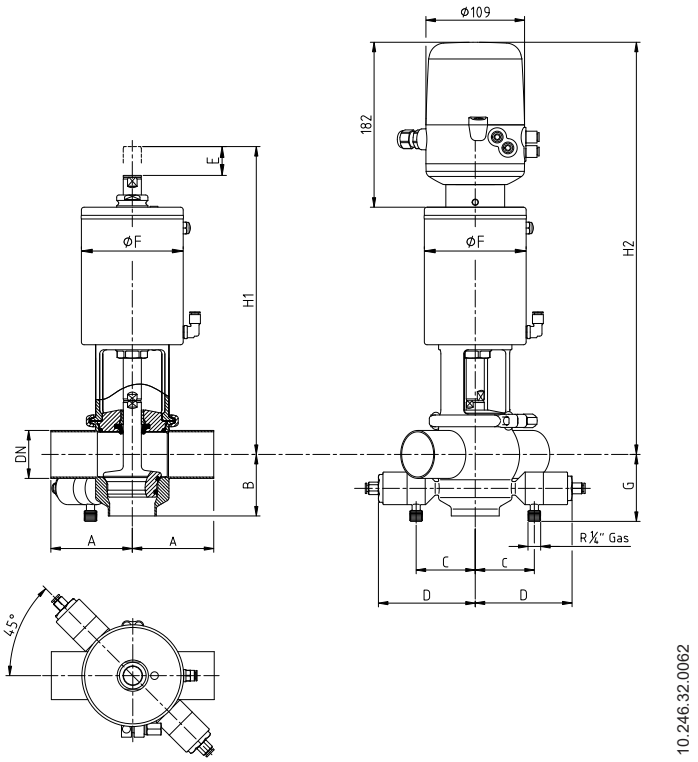
Operating limits

Temperature range	-10ºC to 121ºC	14ºF to 250ºF
SIP temperature	140ºC (max. 30 min)	284ºF
Maximum working pressure	1000 kPa (10 bar)	145 PSI
Minimum working pressure	Vacuum	Vacuum
Compressed air pressure	6 - 8 bar	87 - 116 PSI

OPTIONS

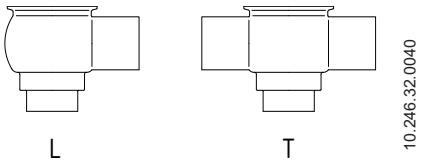
Gaskets: FPM, HNBR.
Other connection types.
Control unit.
External position sensors.
Surface finish: Ra < 0,5 µm.
Steam barrier.

DIMENSIONS



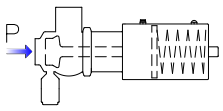
	DN	Pipe	A	B	C	D	E	ØF	G	H1	H2	kg
DIN	25	29,0 x 1,50	50	50	50	92	21	87	62	272	399	5,0
	40	41,0 x 1,50	85	60	59	101	22	87	68	281	408	6,0
	50	53,0 x 1,50	90	68	65	107	32	113	74	340	457	9,3
	65	70,0 x 2,00	110	81	77	119	32	136	82	355	472	14,2
	80	85,0 x 2,00	125	90	83	125	32	136	90	362	479	15,8
	100	104 x 2,00	150	125	95	137	33	166	100	384	501	23,3
OD	1”	25,4 x 1,65	50	50	50	92	17	87	60	270	397	5,0
	1½”	38,1 x 1,65	85	60	59	101	18	87	67	280	407	6,0
	2”	50,8 x 1,65	90	68	65	107	29	113	72	339	456	9,2
	2½”	63,5 x 1,65	110	81	77	119	27	136	79	352	469	14,3
	3”	76,2 x 1,65	125	90	83	125	24	136	86	358	475	15,7
	4”	101,6 x 2,11	150	125	95	137	30	166	99	383	500	23,3

HOUSING COMBINATIONS

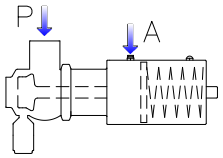


MAXIMUM PRESSURES

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 50 OD 2”	DN 65 OD 2½”	DN 80 OD 3”	DN 100 OD 4”
			[bar] / [PSI]					
	6 / 87	NC	10 / 145	6,4 / 93	5,9 / 86	4,9 / 70	4,2 / 61	4,5 / 65

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 50 OD 2”	DN 65 OD 2½”	DN 80 OD 3”	DN 100 OD 4”
			[bar] / [PSI]					
	6 / 87	NC	10 / 145	10 / 145	10 / 145	10/145	8,5 / 124	7,5 / 108

A ≡ air
P ≡ product pressure
NC ≡ normally closed valve
Values for standard actuators
For other pressures, bigger actuators can be assembled