

I Application

NLD/NTD shut-off valve is a pneumatically actuated sanitary single seat valve designed to detect product loss in case of the seal failure.

I Operating principle

The valve is pneumatically actuated by means of compressed air.

The valve is supplied with a NC single-acting pneumatic actuator, thus in case of air supply failure, the valve goes back to the safety position (closed valve).

The detector is installed as NO (normally open), so that when the valve is closed, it lets the product out, thus giving a signal of leakage.

The seat is provided with two gaskets, between which a safety or detection chamber with a direct outlet to the exterior via the detector is formed.

Compressed air must simultaneously be supplied to the actuator (to open the valve) and to the detector to close it and prevent any loss of product.

Small amounts of product may be lost at the moment of the valve actuation, an air flow regulator can be installed to synchronise the opening/closing times of the actuator/detector to minimise these losses.

I Design and features

Robust and compact design.

Normally closed valve standard version.

Weld connections (mm or inches).

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

Easy disassembly of internal parts by loosening the clamp fastener.

Open lantern to allow visual inspection of shaft sealing.

360° adjustable body.

I Materials

Parts in contact with the product	AISI 316L
Other St.St. parts	AISI 304
Gasket	EPDM according to FDA 177.2600
Internal surface finish	Ra ≤ 0,8 µm
External surface finish	bright polish

I Options

Gaskets: FPM.

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

"Twin-Stop" actuator.

INOXPA control unit for the main actuator.

Position sensors in the main actuator.

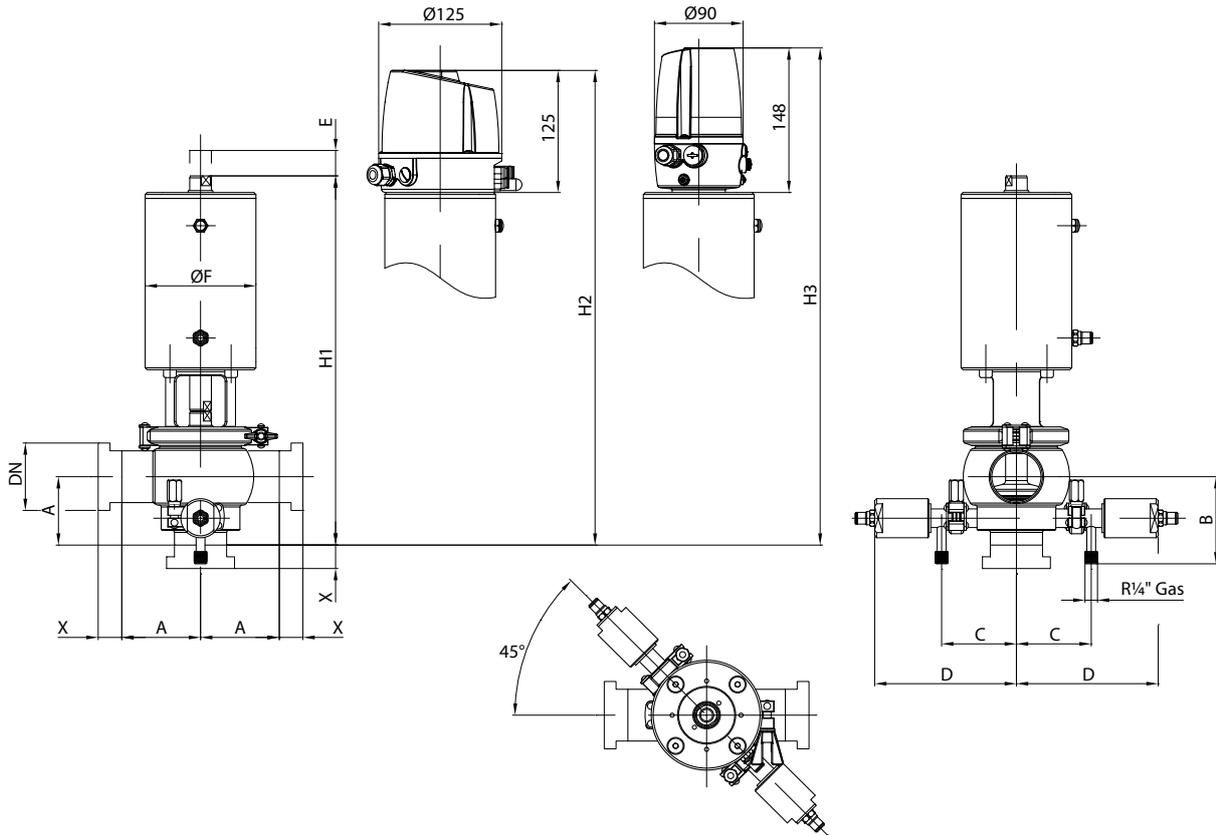
Steam barrier (if shaft sterilisation is required).

Surface finish Ra ≤ 0,5 µm.

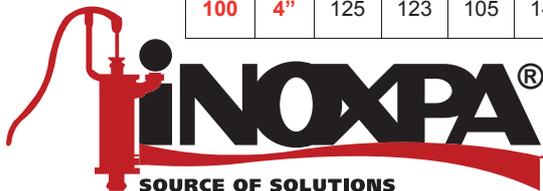
I Technical specifications

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
Maximum working pressure	10 bar	145 PSI
Minimum working pressure	Vacuum	
Compressed air pressure	6-8 bar	87-116 PSI
Air connections	G 1/8 (BSP)	

I Dimensions



DN	A	B	C	D	ØF	E	H1	H2	H3	X				
										Male DIN	Nut DIN	Clamp DIN	Clamp OD	
25	1"	57	76	63	100	87	22	281	381	404	22	15	21,5	12,7
40	1½"	60	83	70	110	112,5	22	288	388	411	22	15		
50	2"	70	93	75	115	112,5	32	359	459	482	23	16		
65	2½"	80	100	90	130	143	36	422	522	545	25	17	28	15,8
80	3"	90	110	95	135	143	36	440	540	563	25	17		
100	4"	125	123	105	145	216	36	482	582	605	30	20		



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