

2 Leakage Butterfly Valve BL



INFORMATION

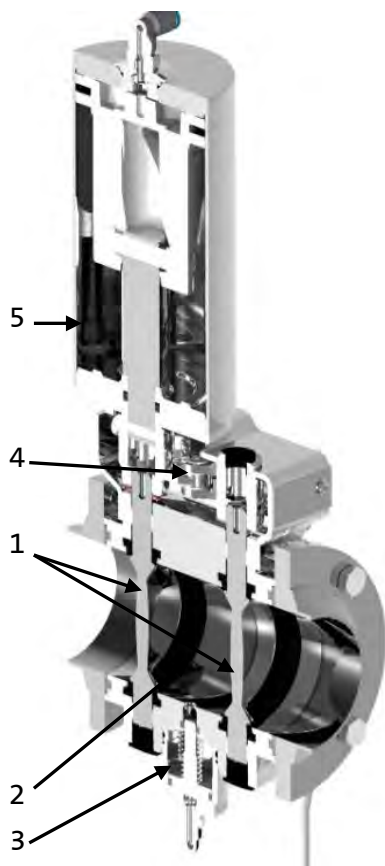
Reliable separation of product rooms and the monitoring of the seals –this is the accomplishment of the EVOGUARD leakage butterfly valve, primarily in CIP applications (cleaning in place). This cost-effective shut-off device is mounted in horizontal lines without horizontal offset. It has a two-disk design; both disk plates are actuated by one actuator via a disk linkage. The integrated safety chamber between the disk plates is equipped with two pneumatic flushing valves, which makes monitoring and cleaning possible.

Any seal defect causes leakage which can be detected at the flushing valve. The seal can then be quickly replaced. All other constructional details of the leakage butterfly valve correspond to those of the butterfly valve. The product separation is reliable and can be monitored.

Extensive testing has been carried out on all of the components to verify the design. For example, the engineers assess the interaction between the seal and the housing or the disk plate, and they also look at the connection to the pneumatic actuator. They pay special attention to safety-related features to ensure that personnel are able to safely handle the valves during production operation.

Design features of modular leakage butterfly valves

- Seal flush against the housing, bevelled seat ensures that the disk opens and closes securely with minimal wear
- Welded, maintenance-free actuator, designed for 1,000,000 cycles
- Shape and composition of the elastomer in accordance with the current state of technology for a reliable sealing performance over the entire temperature range
- Leakage detection with flush valves
- Specially designed clearance for safe hygiene status at the sealing position
- Drainable safety chamber



- 1 2-disk design
- 2 Safety chamber
- 3 Flush valve
- 4 Disk linkage
- 5 Actuator

TECHNICAL DATA

Pressures

Product pressure	PN 145 psi (10 bar) / vacuum -13.8 psi (-0.95 bar)
Housing	PN 231 psi (16 bar)
Control air pressure	min. 80 psi (5.5 bar) - max. 115 psi (8 bar)

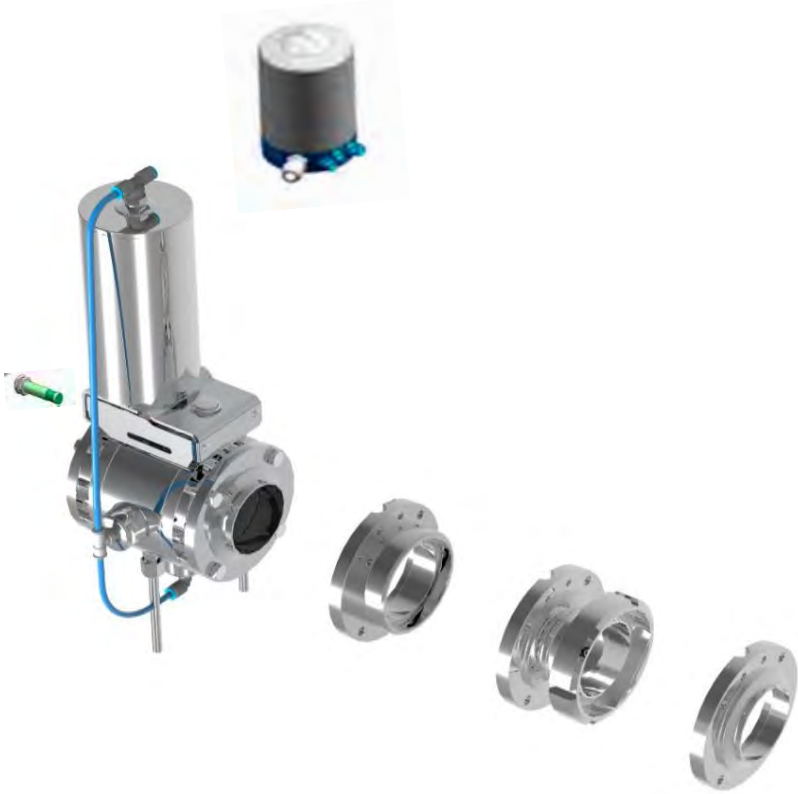
Material

With product contact	1.4404 / AISI 316L
Without product contact	1.4301
Seal	EPDM / FDA Further materials available upon request

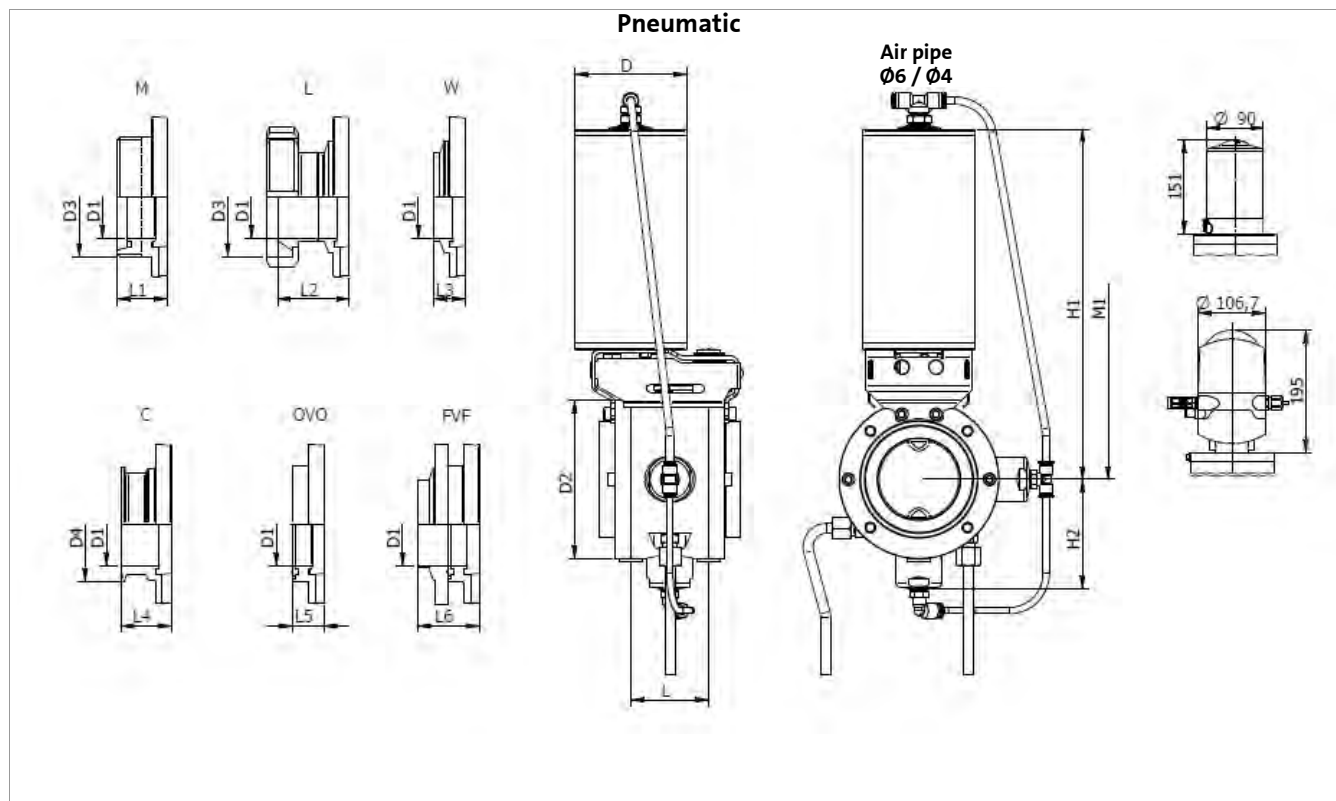
Surface

With product contact	$Ra \leq 0.8 \mu m$
Without product contact	$Ra \leq 1.6 \mu m$

Designs

Valve connection	Intermediate flange Welded end Thread/liner DIN 11851 Clamp ferrule DIN 32676 
Actuator	Pneumatic actuator NC
Additional equipment	Control head Proximity switch M12x1

LEAKAGE BUTTERFLY VALVE BL NC DN

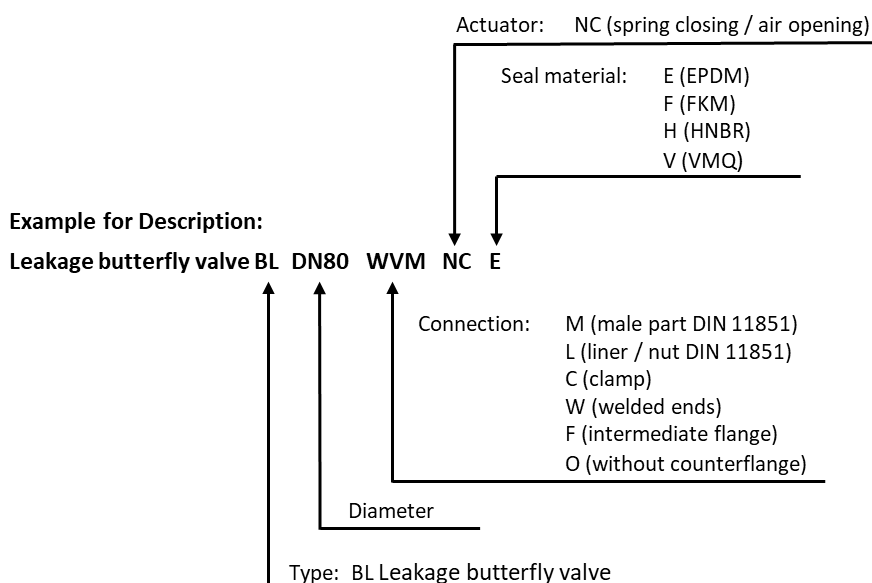


Dimensions

DN	ØD1 mm	ØD2 mm	ØD3 Rd	ØD4 mm	ØD mm	L mm	L1 mm	L2 mm	L3 mm	L4 mm	L5 mm	L6 mm	H1 mm	H2 mm	M1 mm
25	26	83	52x1/6"	50,5	89	62	38	47	25	38	25	49	286	91	317
40	38	99	65x1/6"	50,5	89	62	38	51	25	38	25	49	294	97	326
50	50	109	78x1/6"	64	89	62	38	53	25	38	25	49	300	103	331
65	66	127	95x1/6"	91	89	62	40	57	25	40	25	49	309	111	340
80	81	142	110x1/4"	106	89	62	43	62	25	43	25	49	316	119	347
100	100	162	130x1/4"	119	89	62	43	69	25	43	25	49	326	128	357
125	125	189	160x1/4"	155	114	82	83	71	37	65	27	54	372	173	407
150	150	214	190x1/4"	183	114	82	87	74	37	65	27	54	385	185	419

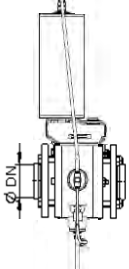
Weight

DN	Pneum. NC FVF kg	Pneum. NC WVM kg
25	9,1	8,0
40	10,4	9,0
50	11,2	9,6
65	12,9	10,9
80	14,4	12,1
100	16,7	14,0
125	29,4	26,0
150	33,5	29,6

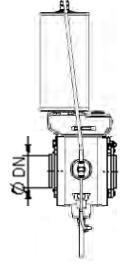


LEAKAGE BUTTERFLY VALVE BL NC DN

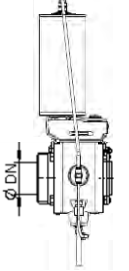
Intermediate flange connection (FVF) DN pneumatic NC
1.4404 / AISI 316L

	DN	- EPDM	- HNBR	- FKM
		Material no.	Material no.	Material no.
	25			
	40			
	50			
	65			
	80			
	100			
	125			
	150			

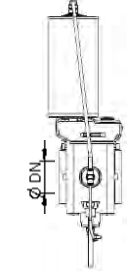
WVW DN pneumatic NC
1.4404 / AISI 316L

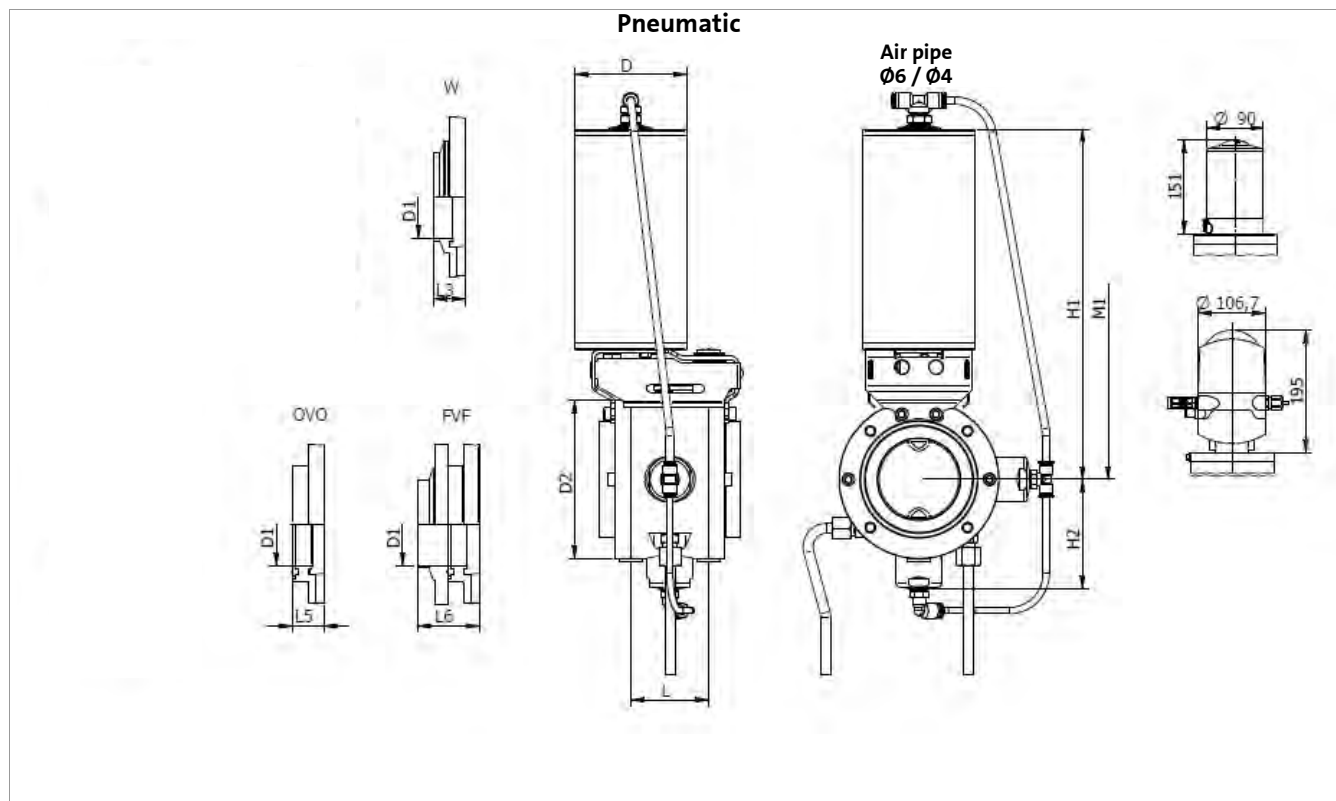
	DN	- EPDM	- HNBR	- FKM
		Material no.	Material no.	Material no.
	25			
	40			
	50			
	65			
	80			
	100			
	125			
	150			

WVM DN pneumatic NC
1.4404 / AISI 316L

	DN	- EPDM	- HNBR	- FKM
		Material no.	Material no.	Material no.
	25			
	40			
	50			
	65			
	80			
	100			
	125			
	150			

OVO DN pneumatic NC
1.4404 / AISI 316L

	DN	- EPDM	- HNBR	- FKM
		Material no.	Material no.	Material no.
	25			
	40			
	50			
	65			
	80			
	100			
	125			
	150			

LEAKAGE BUTTERFLY VALVE BL NC OD

Dimensions

Inch / OD	ØD1 mm	ØD2 mm	ØD3 mm	ØD4 mm	ØD mm	L mm	L1 mm	L2 mm	L3 mm	L4 mm	L5 mm	L6 mm	H1 mm	H2 mm	M1 mm
1"	22,1	83			89	62			25		25	49	286	91	317
1,5"	34,8	99			89	62			25		25	49	294	97	326
2"	47,5	109			89	62			25		25	49	300	103	331
2,5"	60,2	127			89	62			25		25	49	308	108	339
3"	72,9	142			89	62			25		25	49	312	115	343
4"	97,38	162			89	62			25		25	49	326	128	357
6"	146,86	214			114	82			37		27	54	385	185	419

Weight

Inch / OD	Pneum. NC FVF kg	Pneum. NC WVM kg
1"	8,3	7,4
1,5"	9,6	8,5
2"	10,4	9,1
2,5"	12,1	10,5
3"	13,6	11,9
4"	16,0	13,7
6"	33,4	31,2

Example for Description:

Leakage butterfly valve BL 3"OD FVF NC E

Actuator: NC (spring closing / air opening)

 Seal material: E (EPDM)
F (FKM)
H (HNBR)
V (VMQ)

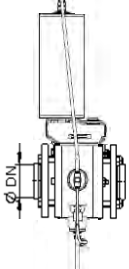
 Connection: C (clamp)
W (welded ends)
F (intermediate flange)
O (without counterflange)

Diameter

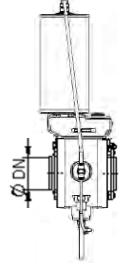
Type: BL Leakage butterfly valve

LEAKAGE BUTTERFLY VALVE BL NC OD

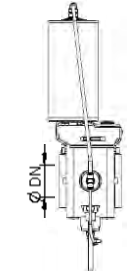
Intermediate flange connection (FVF) OD pneumatic NC
1.4404 / AISI 316L

	Inch OD	- EPDM	- HNBR	- FKM
		Material no.	Material no.	Material no.
	1"			
	1,5"			
	2"			
	2,5"			
	3"			
	4"			
	6"			

WVW OD pneumatic NC
1.4404 / AISI 316L

	Inch OD	- EPDM	- HNBR	- FKM
		Material no.	Material no.	Material no.
	1"			
	1,5"			
	2"			
	2,5"			
	3"			
	4"			
	6"			

OVO OD pneumatic NC
1.4404 / AISI 316L

	Inch OD	- EPDM	- HNBR	- FKM
		Material no.	Material no.	Material no.
	1"			
	1,5"			
	2"			
	2,5"			
	3"			
	4"			
	6"			

SPARE PARTS LEAKAGE BUTTERFLY VALVE

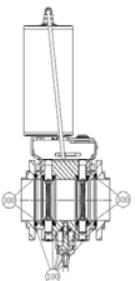
Bushing DN

	DN	IGLIDUR
		Material no.
	25	0902541356
	40	
	50	
	65	
	80	
	100	0902541430
	125	
	150	

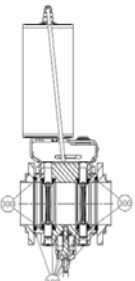
Bushing OD

	Inch OD	IGLIDUR
		Material no.
	1"	0902541356
	1,5"	
	2"	
	2,5"	
	3"	
	4"	
	6"	0902541430

Seal kit, complete, with product contact DN, connection O, F

	DN	EPDM	HNBR	FKM
		Material no.	Material no.	Material no.
	25	0905473602		
	40	0905473603		
	50	0905473604		
	65	0905473605		
	80	0905473606		
	100	0905473607		
	125	0905495982		
	150	0905495983		

Seal kit, complete, with product contact OD, connection O, F

	Inch OD	EPDM	HNBR	FKM
		Material no.	Material no.	Material no.
	1"	0905473608		
	1,5"	0905473640		
	2"	0905473641		
	2,5"	0905473642		
	3"	0905473643		
	4"	0905473644		
	6"	0905495983		

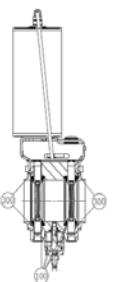
EVOGUARD

Leakage Butterfly Valve BL

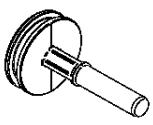
Seal kit, complete, with product contact DN, connection M, L, C, W

	DN	EPDM	HNBR	FKM
		Material no.	Material no.	Material no.
	25	0905473763		
	40	0905473765		
	50	0905473767		
	65	0905473768		
	80	0905473800		
	100	0905473801		
	125	0905496584		
	150	0905496585		

Seal kit, complete, with product contact OD, connection C, W

	Inch OD	EPDM	HNBR	FKM
		Material no.	Material no.	Material no.
	1"	0905473763		
	1,5"	0905473765		
	2"	0905473767		
	2,5"	0905473802		
	3"	0905473803		
	4"	0905473801		
	6"	0905496585		

Piston for rinsing valve

	DN	
		Material no.
	25	
	40	
	50	
	65	
	80	
	100	
	125	
	150	

Disk DN

	DN	
		Material no.
	25	0901796743
	40	0901796746
	50	0901796749
	65	0901796770
	80	0901796771
	100	0901796772
	125	0901948271
	150	0901948276

Disk OD

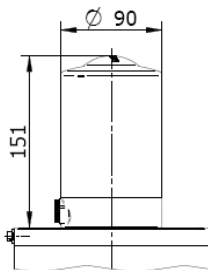
	Inch OD	
		Material no.
	1"	0901796743
	1,5"	0901796746
	2"	0901796749
	2,5"	0902492242
	3"	0902492243
	4"	0901796772
	6"	0901948276

ADDITIONAL EQUIPMENT LEAKAGE BUTTERFLY VALVE

Proximity switch M12x1

	DN	
	Material no.	
	25	0901443696
	40	
	50	
	65	
	80	
	100	
	125	
	150	

Control head, 2 proximity switches

	DN	24 V DC 2 proximity switches 1 solenoid valve	24 V DC ASI 2 proximity switches 1 solenoid valve
	Material no.	Material no.	Material no.
	25	0902928158	0904617590
	40		
	50		
	65		
	80		
	100		
	125		
	150		