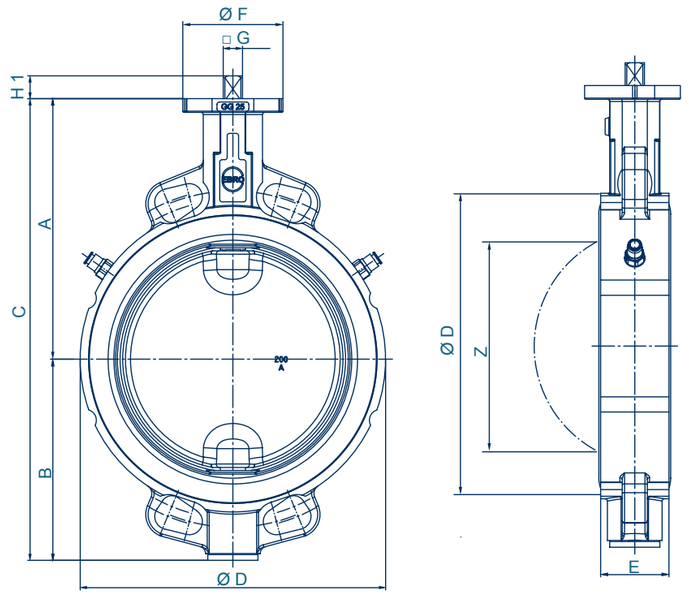
INFLATABLE SEAT “INFLAS®”



Z 011-A Inflas® with bare shaft end according to EN ISO 5211

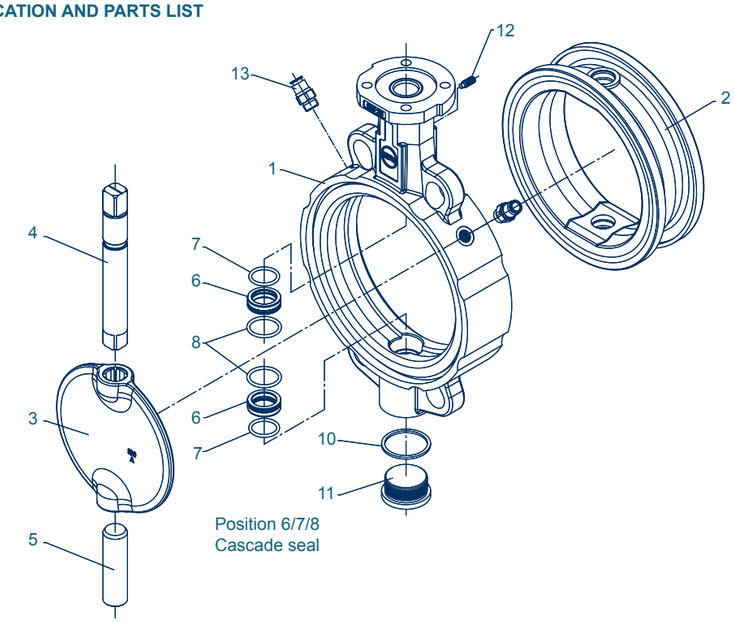
DN [mm]	Size [in]	Dimensions [mm] A	B	C	D	E	F	Flange	G	H1	Z	Weight [kg]
50	**2**	126	84	210	95	43	54	F04	11	12	25	2,2
65	**2½**	134	93	227	115	46	54	F04	11	12	45	2,9
80	**3**	157	104	261	138	46	65	F05	14	16	65	4,0
100	**4**	167	115	282	158	52	65	F05	14	16	85	5,2
125	**5**	180	127	307	188	56	65	F05	14	16	111	6,9
150	**6**	203	150	353	212	56	90	F07	17	19	139	9,5
200	**8**	228	176	404	268	60	90	F07	17	19	190	13,2
250	**10**	266	212	478	320	68	125	F10	22	24	240	22,5
300	**12**	291	237	528	370	78	125	F10	22	24	287	31,5
350	**14**	332	269	601	408	78	150	F12	*	*	330	39,4
400	**16**	363	314	677	470	102	150	F12	*	*	378	58,7
500	**20**	437	371	808	574	127	210	F14/F16	*	*	474	107,0
600	**24**	498	469	967	675	154	300	F16/F25	*	*	563	171,0

* According to mounted actuator

Subject to change without notice

INFLATABLE SEAT “INFLAS®”

MATERIAL SPEZIFICATION AND PARTS LIST



Pt.	Description	Material	Material-No.	ASTM
1	**Body**			
	Aluminiumalloy	G-AlSi9Cu3	3.2163	B 380.1
		G-AlSi10Mg	3.2381	361.1
	Grey Cast Iron	GG-25	0.6025	40 B
	Nodular Cast Iron	GGG-40	0.7040	60-40-18
		GGG-40.3	0.7043	
	Carbon Steel	GS-C25	1.0619	WCB
	Stainless Steel	G-X5CrNiMo19-11-2	1.4408	CF8M
2	**Seat**			
	NBR	Nitrile butadiene rubber		
	EPDM	Ethylene propylene diene monomer rubber		
	CSM	Chlorosulfonated polyethylene rubber		
	FPM	Fluorocarbon rubber		
	VSI	Silicone rubber		
	SBR-green	Styrene butadiene rubber		
3	**Disc**			
	Stainless Steel	G-X5CrNiMo19-11-2	1.4301	304
		G-X6CrNiMo18-10	1.4408	CF8M
		X2CrNiMo17-12-2	1.4404	316 L
		X6CrNiMoTi17-12-2	1.4571	316 Ti
		G-X2CrNiMoN26-7-4	1.4469	F 51
		Hastelloy	2.4883	Hastelloy
	Aluminium Bronze	G-CuAl10Ni	2.0975	C 95800
	Coating	Halar, Rilsan, NBR, EPDM		
	Surface quality	electropolished, mirror finished		

Pt.	Description	Material	Material-No.	ASTM
4/5	**Shafts**			
	Stainless Steel	X39CrMo17-1	1.4122	
		X14CrMoS17	1.4104	430 F
		X5CrNiMo 17-12-2	1.4401	316
		X2CrNiMoN22-5-3	1.4462	
6	**Cascade seal**			
	Brass	MS 58	2.0401	B 45
7	**O-ring inside**			
	NBR	Nitrile butadiene rubber		
	FPM	Fluorocarbon rubber		
8	**O-ring outside**			
	NBR	Nitrile butadiene rubber		
	FPM	Fluorocarbon rubber		
10	**Seal DIN 7603**			
	Copper	Cu		Copper
11	**Plug screw**			
	Stainless Steel	G-X5CrNiMo19-11-2	1.4408	CF8M
12	**Threaded pin**			
	Steel	45 H galvanized		
	Stainless Steel	A4-70		B8M
13	**Air supply**			
	Brass nickel-plated			
	Other materials upon request			

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INFLATABLE SEAT “INFLAS®”

Resilient seated butterfly valve type Z011-A INFLAS® PRO / PRO Vacuum with inflatable liner.

TECHNICAL DATA

The sealing system was developed for highly abrasive or very sensitive media.

Available for all resilient seated butterfly valves with interchangeable seat from DN 80 - DN 600.

In closed position, the liner will be pressed against the disc using low air pressure.The media is sealed off securely.

Before opening the disc, the chamber is vented behind the liner. This creates an air gap between the liner and the disc, hence low torque is required to open the valve.

A gap-free special version (GF) is also available for higher pressures, pressure surges or extremely abrasive media. This is available from DN125 with 4 air connections.

ADVANTAGES

Extremely low wear of parts even in contact with abrasive media

Low sized actuators due to reduced torques

Low grinding/-clamping of sensitive media between disc and liner

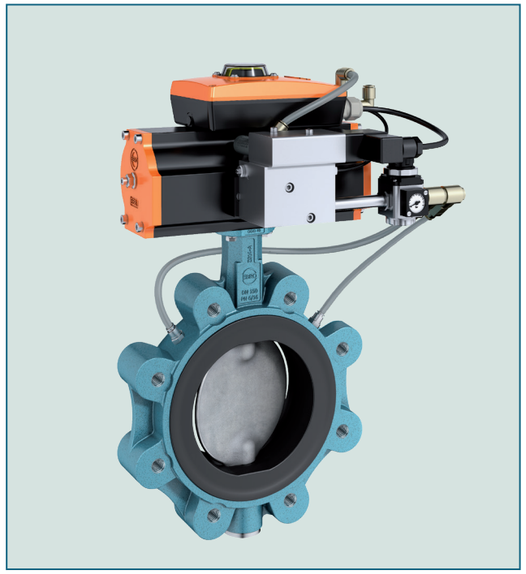
Additional safety due to cascade shaft seal, as no false air can be drawn in via the shaft and the cascade simultaneously protects the shaft bearings from dirt and dust.

THE EBRO CONTROL

1. Signal “OPEN” appears as a digital signal
2. The air pressure is reduced behind the liner
3. The valve will open if there is no pressure on the liner
4. Position “OPEN” will be confirmed
5. When the signal disappears, the valve will close
6. Position „CLOSED“ will be confirmed
7. When the valve is closed, the liner will be pressurised and the plausibility check is carried out
8. When pressure is on the liner „OK“ will be reported

GENERAL APPLICATIONS

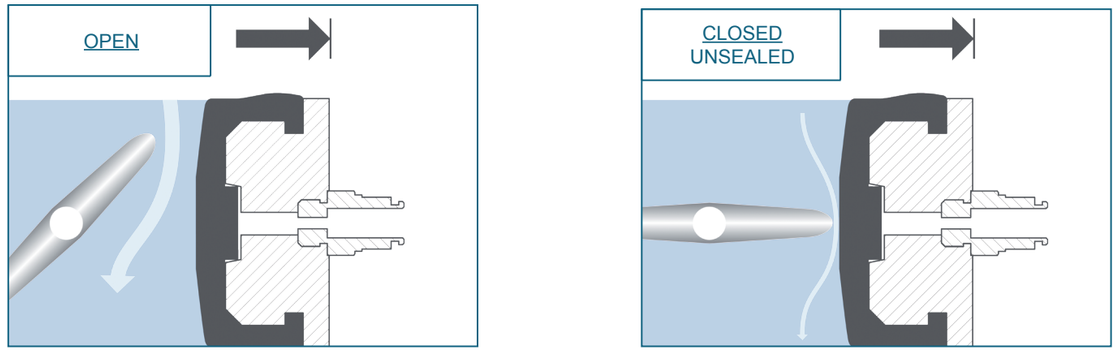
- Bulk goods
- Food industry
- Pneumatic conveying systems
- Weighing technology
- Core shooting machinery (GF-version)



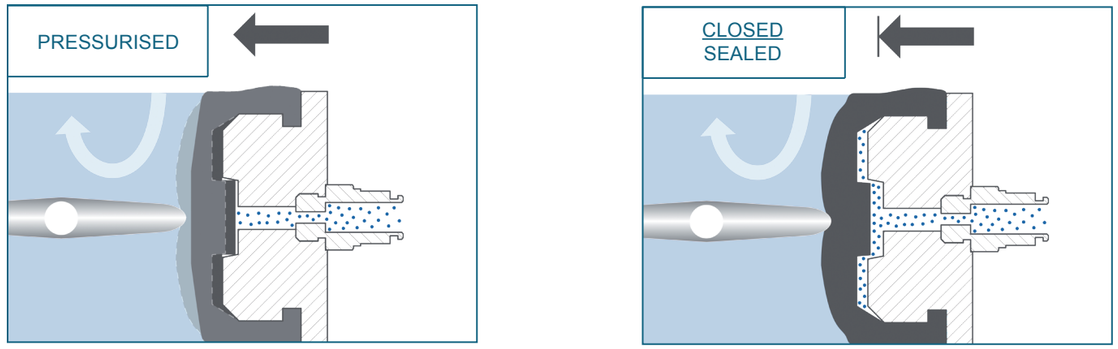
Z014-A INFLAS® ECO

INFLATABLE SEAT “INFLAS®”

FUNCTIONAL DESCRIPTION INFLATABLE SEAT



As the valve rotates into the closed position, the disc makes casual contact with the seat, reducing friction, wear and torque requirements.



After the valve is closed, the seat inflates against the disc providing bidirectional bubble tight seal.

INFLAS®	ECO	PRO	PRO VACUUM
Inflatable Seat	x	x	x
Inflation Pressure Control	x	x	x
Central Air Supply	x	x	x
Position Safety Scan	x	x	x
Pneumatic Time Control	x	-	-
Electronic Control of all sequences	-	x	x
Automatic function control	-	x	x
Error Indication evaluable via contact	-	x	x
Electronic Pressure Control	-	x	x
LED Status Display	-	x	x
Vacuum Module (Option)	-	-	x
ATEX (Option)	x	x	x

EBRO ARMATUREN

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12.2023