

BIO-GARD

SANITARY REVERSE ACTING RUPTURE DISC

Bio-Gard offers full-bore relief for reliable overpressure protection in aseptic and hygienic plants

**FDA
USP Class VI
3A STANDARD
ASME BPE**

Meets bioprocessing requirements



Bio-Gard is a low-pressure, peripherally scored, reverse-acting rupture disc designed specifically for protection of aseptic and hygienic plant.

Bio-Gard has a smooth, uninterrupted surface finish to reduce microbial load and maximize the effectiveness of Steam/Sterilization (SIP) and Clean-In-Place (CIP) procedures.

Bio-Gard is compatible with all standard sanitary fittings and connectors. The non-fragmenting rupture disc design requires no additional vacuum support to withstand full vacuum.

Size	25 - 50mm
Burst Pressure	2 - 10 barg
Operating Ratio	90%
Performance Tolerance	+/- 10%
Manufacturing Range	0%

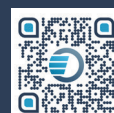
**Let us help you with all
your pressure relief questions.**

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osecoelfab.com

**REQUEST A QUOTE FOR
THE BIO-GARD**



TECHNICAL SPECIFICATIONS



Size range	25-50mm (1"-2")
Burst pressure range	2 barg to 10 barg (29 psig to 145 psig)
Suitable for CIP/SIP processes	Yes. Suitable for temperatures up to 200°C (392°F)
Standard materials	316 Stainless Steel as standard. Others available on request
Max. Operating Ratio	90% of minimum burst pressure (81% of nominal burst pressure)
Performance Tolerance	+/-10%
Manufacturing Range	0%
Fragmentation	Non-fragmenting design
Vacuum Service	Withstands full vacuum (14.7 psi) without separate vacuum support
Fluid compatibility	Gas service, vapour service
Surface finish	0.4µm Ra or better
Design Standards	Manufactured to ISO 4126-2:2019

Certifications

Meets FDA requirements
Meets ASME BPE requirements
Meets USP Class VI requirements
CE
PED
SIL

Related Products

Sensors

Bio-Tel

Accessories

Tri-Clamps
Spacers

Burst Pressure Ranges

Bio-Gard Min/Max Burst Pressure @ 20°C (68°F)



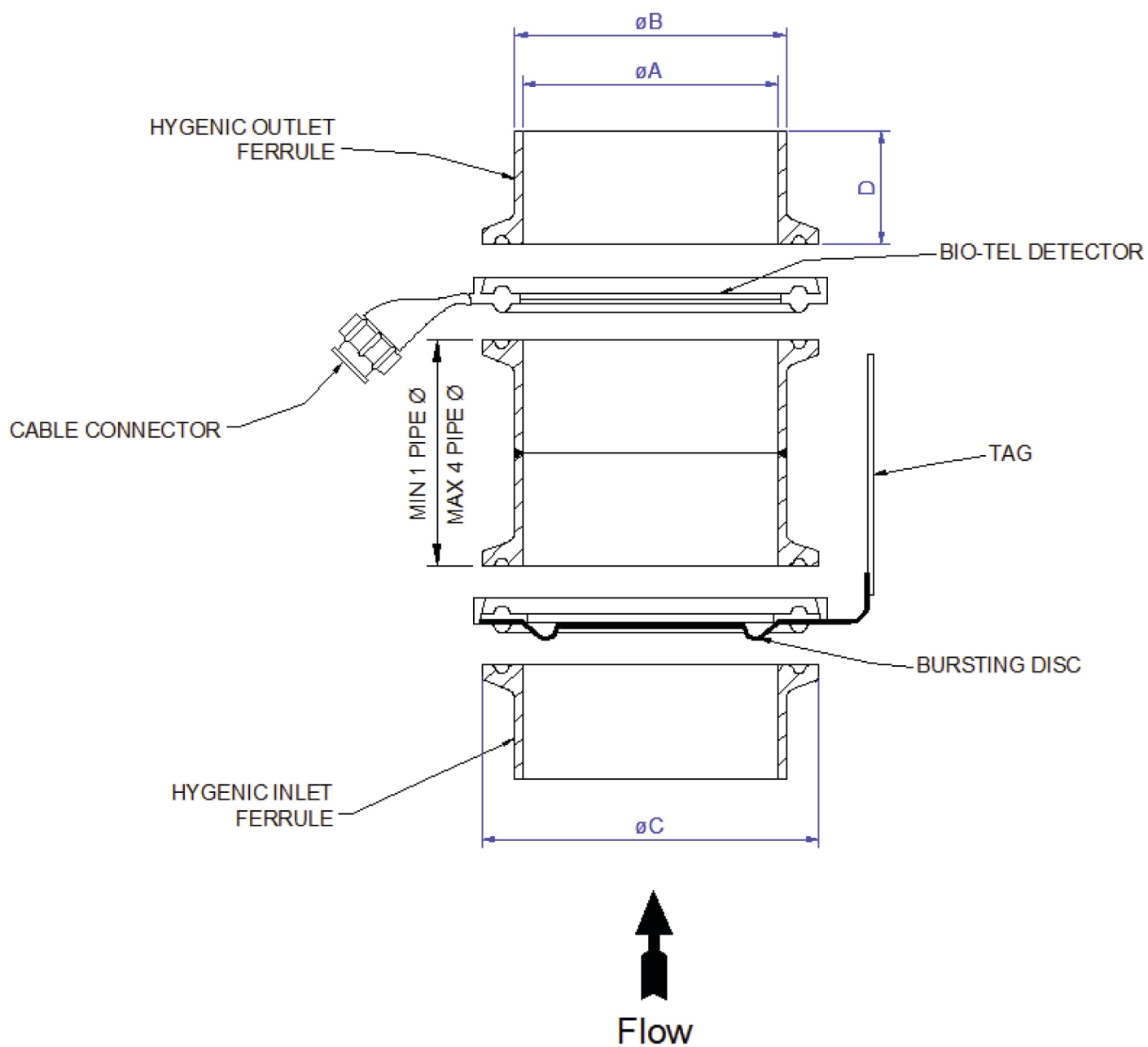
SIZE		MATERIAL	MIN barg (psig)	MAX barg (psig)
DN (mm)	inches			
25	1	316 Stainless Steel Hastelloy Nickel	2.5 (36) 3.0 (44) 2.0 (29)	10 (145)
40	1.5	316 Stainless Steel Hastelloy Nickel	2.0 (29) 2.5 (36) 2.0 (29)	10 (145)
50	2	316 Stainless Steel Hastelloy Nickel	2.0 (29) 2.5 (36) 2.0 (29)	8.0 (116) 6.0 (87) 6.0 (87)

Free Flow Area / Minimum Net Flow Area (MNFA)

NOMINAL BORE		MNFA	
DN (mm)	inches	mm ²	Sq. Inch
25	1	327	0.51
40	1.5	825	1.28
50	2	1555	2.41

Burst Tolerance

+/- 10% at all burst pressures



SIZE		A (mm)	B (mm)	C (mm)	D (mm)
DN (mm)	inches				
25	1	22.6	25.6	50.5	21.5
40	1.5	35.6	38.6	50.5	
50	2	48.6	51.6	64	