

UHV BURST DISK

YOUR FIRST LINE OF DEFENSE AGAINST
ACCIDENTAL PRESSURIZATION



ANCORP is proud to announce our new UHV burst disk designed for our customers who require protection from accidental over-pressurization of their vacuum systems. The ASME UD certified overpressure burst disk and low pressure burst disk both feature all-metal stainless steel construction designed for UHV applications.

Vacuum systems are normally rated for an external load of one atmosphere and should not be exposed to excess positive pressure. For this reason, ANCORP has designed a line of burst disks that help to prevent the accidental pressurization of a vacuum system. **ANCORP** offers burst disks in CF16 or CF40 metal seal flange connections. Gas recovery port connections are available in CF338 or KF50 flanges.

ANCORP has designed the ASME burst disk to be ASME UD certified and 10CFR851 compliant. Our low pressure burst disk is designed to be ISO 4126-2 compliant. Burst disks are constructed with a frustum metal membrane which is capable of sustaining a vacuum load. The low pressure burst disk will activate if the pressure inside a vacuum system increases to 5 PSIG, while the ASME overpressure burst disk will activate if the pressure reaches 11.5 PSIG. The burst disk membrane is scored to prevent fragmenting upon rupture, thus protecting personnel and equipment from harm. However, once the disk has ruptured it is no longer usable and must be replaced.

Features

- Stainless steel body and disk membrane
- Bakeable to 450°C
- Protects sensitive components from accidental over-pressurization
- Protects personnel from harmful ruptures
- Protects equipment from costly damage and down-time
- Optional gas recovery system to prevent gases escaping into the atmosphere
- Compact design with no moving parts
- ASME UD Certified to be 10CFR851 compliant
- Low pressure burst disk designed to be ISO 4126-2 compliant
- DN16CF or DN40CF metal seal flange connections (CF338 or KF50 for gas recovery ports)
- The scored membrane prevents fragmentation upon rupture.

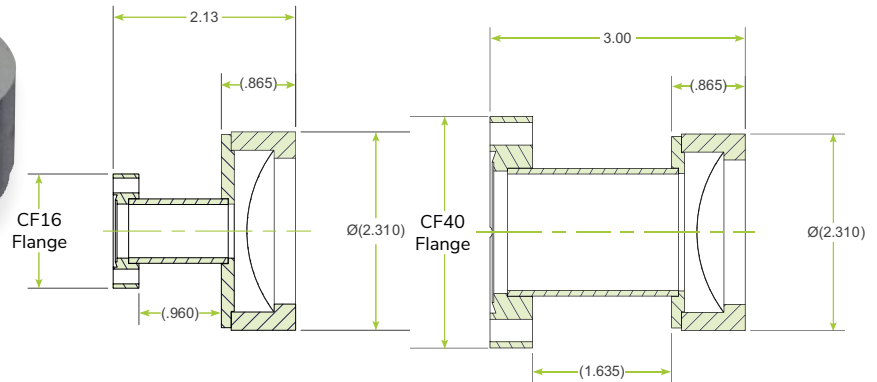
ASME Overpressure Burst Disk (9-11.5 PSIG)



Our ASME overpressure burst disks are designed for systems that require pressure relief above atmospheric pressure. The disk membrane will activate and fully open when a pressure differential between 9 and 11.5 PSIG is reached. The optional gas recovery port can be connected to your gas line using a CF338 or KF50 flange.

Specifications

- Pressure relief range: 9 to 11.5 PSIG
- UHV Compatible all-metal construction
- Bakeable to 450°C
- DN16 or DN40 CF ConFlat flange mounting
- Gas recovery port options available with KF50 or CF338 flange connection
- ASME UD certified 10CFR851 compliant
- Leak tight to 2×10^{-10} std. cc/sec of Helium
- Calculated Flow rates
107 SCFM on DN16 flange assembly
435 SCFM on DN40 flange assembly



BD-ASME-CF16
ASME Burst Disk with CF16 Flange

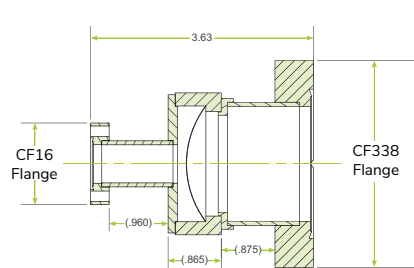
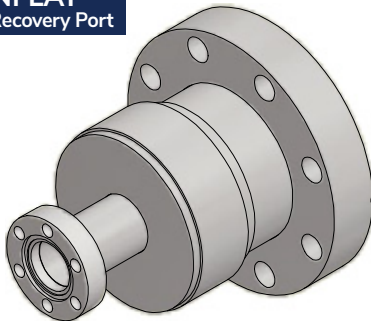
BD-ASME-CF40
ASME Burst Disk with CF40 Flange

PART ID	REFERENCE NUMBER	DESCRIPTION	UNIT PRICE
9100030	BD-ASME-CF16	ASME Burst Disk, CF16 Flange	634.00€
9100031	BD-ASME-CF40	ASME Burst Disk, CF40 Flange	666.00€

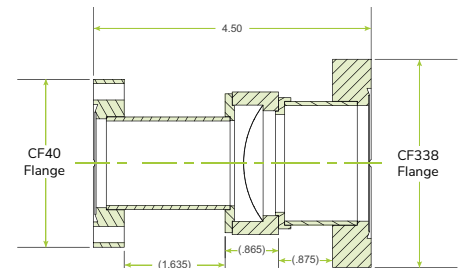
(all prices include german 19% VAT)

ASME Overpressure Burst Disk (9-11.5 PSIG) with Optional Gas Recovery Port

CONFLAT Gas Recovery Port

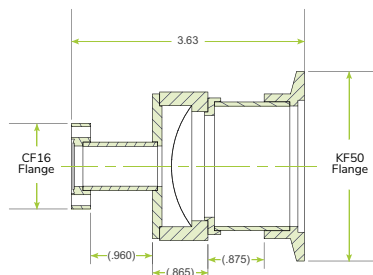
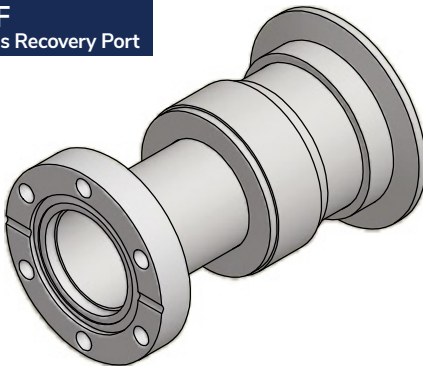


BD-ASME-CF16XCF338-GRP
-ASME-Burst Disk with CF16 Flange-
and CF338 Gas Recovery Port

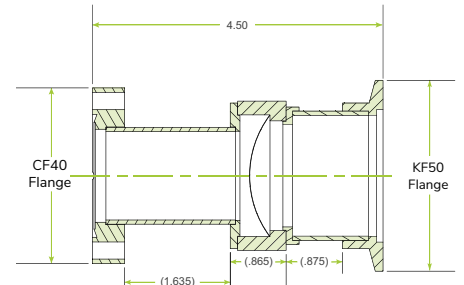


BD-ASME-CF40XCF338-GRP
ASME Burst Disk with CF40 Flange
and CF338 Gas Recovery Port

KF Gas Recovery Port



BD-ASME-CF16XKF50-GRP
ASME Burst Disk with CF16 Flange
and KF50 Gas Recovery Port



BD-ASME-CF40XKF50-GRP
ASME Burst Disk with CF40 Flange
and KF50 Gas Recovery Port

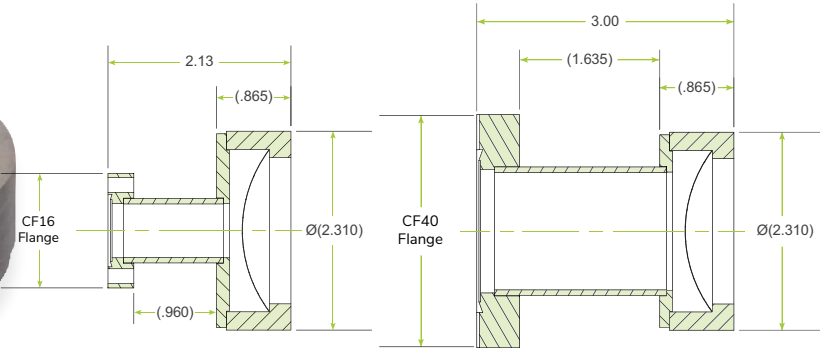
PART ID	REFERENCE NUMBER	DESCRIPTION	UNIT PRICE
9100034	BD-ASME-CF16XCF338-GRP	ASME Burst Disk, CF16 Flange with CF338 Gas Recovery Port	741.00€
9100035	BD-ASME-CF16XKF50-GRP	ASME Burst Disk, CF16 Flange with KF50 Gas Recovery Port	741.00€
9100036	BD-ASME-CF40XCF338-GRP	ASME Burst Disk, CF40 Flange with CF338 Gas Recovery Port	774.00€
9100037	BD-ASME-CF40XKF50-GRP	ASME Burst Disk, CF40 Flange with KF50 Gas Recovery Port	774.00€

Our low pressure burst disks are designed with a frustum metal membrane which is able to sustain a vacuum load and are ISO 4126-2 compliant. The disk membrane will activate and fully open when a pressure differential between 5 and 7 PSIG is reached. In scenarios where gas back-fill could be dangerous, the optional gas recovery port can be connected to your gas line using a CF338 or KF50 flange.



Specifications

- Pressure relief range: 5 to 7 PSIG
- UHV Compatible all-metal construction
- Bakeable to 450°C
- DN16 or DN40 ConFlat flange mounting
- Gas recovery port options available with KF50 or CF338 flange connection
- ISO 4126-2 compliant
- Leak tight to 2×10^{-10} std. cc/sec of Helium
- Calculated Flow rates:
107 SCFM on CF16 flange assembly
435 SCFM on CF40 flange assembly



BD-LP-CF16
Low Pressure Burst Disk with CF16 Flange

BD-LP-CF40
Low Pressure Burst Disk with CF40 Flange

PART ID	REFERENCE NUMBER	DESCRIPTION	UNIT PRICE
9100032	BD-LP-CF16	Low Pressure Burst Disk, CF16 Flange	634.00€
9100033	BD-LP-CF40	Low Pressure Burst Disk, CF40 Flange	666.00€

(all prices include german 19% VAT)

Low Pressure Burst Disk (5-7 PSIG) with Optional Gas Recovery Port

CONFLAT
Gas Recovery Port

BD-LP-CF16XCF338-GRP
Low Pressure Burst Disk with CF16 Flange and CF338 Gas Recovery Port

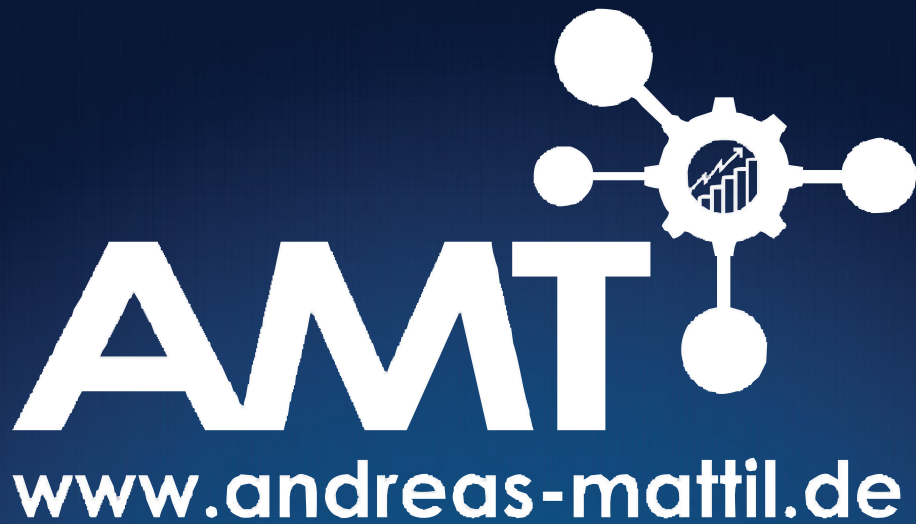
BD-LP-CF40XCF338-GRP
Low Pressure Burst Disk with CF40 Flange and CF338 Gas Recovery Port

KF
Gas Recovery Port

BD-LP-CF16XKF50-GRP
Low Pressure Burst Disk with CF16 Flange and KF50 Gas Recovery Port

BD-LP-CF40XKF50-GRP
Low Pressure Burst Disk with CF40 Flange and KF50 Gas Recovery Port

PART ID	REFERENCE NUMBER	DESCRIPTION	UNIT PRICE
9100038	BD-LP-CF16XCF338-GRP	Low Pressure Burst Disk, CF16 Flange with CF338 Gas Recovery Port	741.00€
9100039	BD-LP-CF16XKF50-GRP	Low Pressure Burst Disk, CF16 Flange with KF50 Gas Recovery Port	741.00€
9100040	BD-LP-CF40XCF338-GRP	Low Pressure Burst Disk, CF40 Flange with CF338 Gas Recovery Port	774.00€
9100041	BD-LP-CF40XKF50-GRP	Low Pressure Burst Disk, CF40 Flange with KF50 Gas Recovery Port	774.00€



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