



Safety is for life.™

Graphite Rupture Disc GRX[®] -UK(V) and GRX[®] -MT



Translation of the original operating manual

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1 About this operating manual

This operating manual is part of the reverse acting rupture disc product and describes the safe and proper use in all phases of operation.

Parts or all of this manual may not be copied, disseminated, utilised or distributed to third parties.

Deviations between illustration and product are possible.

In case of questions, contact REMBE®.

1.1 Documents that also apply

- Declaration of Conformity
- Inspection Certificate acc. to EN 10204 / 3.1
- Project documentation (optional)
- Drawing (optional)
- Order Confirmation

1.2 Valid types and variants

There are many types and variants of REMBE® products. The type describes product, the variant describes a special characteristic of the type. Table / tables shows / show a selection of common type designations of rupture discs. Other types and variants are available, depending on the respective application.

Type designation rupture disc	Abbrevi- ation	Description for type designation
GRX®-UK	GRX	Graphite rupture disc
GRX®-UK	UK	inverted version
GRX®-UKV	UKV	inverted version, vacuum - / backpressure support
GRX®-MT	MT	non-inverted, monotype

Tab. 1-1 Schlüssel zur Typenbezeichnung



Specific type designation: see edge of rupture disc
Number at the end = nominal size in inch (e.g. GRX-2)

The installation of the product is permitted with flanges of the following standards:

- DIN EN 1092-1 Flanges and their joints - circular flanges for pipes, valves, fittings and accessories, PN designated - Part 1: Steel flanges
- DIN 2631 et. seq.. German flange catalogue
- ASME Flange catalogue (B16.5 or B16.47)
- Customer-specific flanges or installation supports whose dimensions comply with the above-mentioned standards

1.3 Target groups

Target group	Definition	Tasks and activities
Operator	- Owner, entrepreneur, proprietor or assigned person - Person with overall responsibility for safe operation of plant or system	- Sets rules and boundary conditions for the organisation. - For specific tasks see chapter 2.4 <i>Obligations of operator</i>, page 9).
Expert personnel	Person is able to assess the work assigned and recognise possible hazards. Person has the technical training, knowledge and experience as well as the knowledge of the relevant standards to do so.	- Read, observe and comply with this operating manual and all applicable documents, in particular the safety and warning notices. - Carry out assigned tasks to corresponding fields of activity.

Tab. 1-2 Target groups and their tasks

1.4 Definitions

Vent Side

Side to which pressure is relieved when rupture disc opens.

Operating parameters of plant or system

Prevailing parameters and settings in plant or system of the operator.

Operating limits

Minimum and maximum parameters at which product may be operated.

Intended direction of flow during pressure relief

Direction in which pressure relief takes place when rupture disc opens. Does not always correspond to the direction of flow during operation.

1.5 Representation of warning notices

Signal word	Hazard category	Consequence of not observing
 DANGER	Immediate threat of danger	Death, serious injury
 WARNING	Potential threat of danger	Death, serious injury possible
 CAUTION	Potentially dangerous situation	Minor injury possible
NOTICE	Potentially harmful situation	Material damage / environmental damage
	Important information and helpful advice	

Tab. 1-3 Meaning of warning notices



Structure of warning notices



Source of danger

Consequence of not observing

- Measures to avoid

1.6 Representation of action guidelines

☒ Prerequisite

1. Action step in the order to be followed
2. ...
3. ...

► Result

1.7 Applicable standards and directives

Standard / directive	Explanation
PED 2014/68/EU	Pressure Equipment Directive (PED)
AD 2000 data et. seq.	AD 2000 regulations

Tab. 1-4 Applicable standards and directives



Valid standard: see tag plate (see chapter 4 *Identification*, page 13).

Different standards and directives apply depending on the area of application and country of destination. For a full overview of certified standards and directives, see enclosed Declaration of Conformity.

2 Safety

2.1 Intended use

The rupture disc is a safety device and is used for pressure relief in closed vessels, production plants and pipe systems.

Use the product only within the limits of the technical specification according to the documents that also apply (see chapter *1.1 Documents that also apply*, page 5) as well as according to the technical data (see chapter *11 Technical data*, page 24).

To ensure intended use, the following requirements apply:

- Only use the product when properly installed.
- Only install 1 rupture disc for each installation position.
- Design and application with pressures > 0.5 bar must conform to the Pressure Equipment Directive 2014/68/EU. Momentary, short duration pressure surge must be limited to 10% of the maximum permitted pressure.



Different standards and directives apply depending on the area of application and country of destination. For a full overview of certified standards and directives, see enclosed Declaration of Conformity.



In case of a combined use of rupture disc(s) and a safety valve or a combined use of 2 rupture discs: space between safety devices must be kept depressurised or monitored (e.g. with an excess flow valve).

For further information, see DIN EN ISO 4126-3.



Plant or system must be sufficiently dimensioned. Depending on the application, plant or system must be pressure-resistant, heat-resistant and fire-resistant.

Deviations from technical specification must be clarified with REMBE®.

2.2 Foreseeable misuse

Any kind of foreseeable misuse is considered as not intended use and is prohibited!

Following kinds of foreseeable misuse are known:

- Only touch the rupture disc at the edge when handling.
- Never install rupture disc against flow direction in system. Directional arrows of rupture disc have to match flow direction in system.
- Operating pressure must not exceed 80% of the min. burst pressure of the rupture disc under normal operating conditions.
- In case of serial combination with safety valve (rupture disc before safety valve inlet), catchment device (protective cage or pipe arrangement) must be installed to protect safety valve against fragments of the rupture disc.



Due to the coating of the rupture disc, fingerprints are possible and cannot be removed. These have no influence on the functionality and safety of the rupture disc.

To prevent fingerprints from forming, wear gloves when touching.

2.3 General safety notes

2.3.1 Product safety

This product is manufactured in accordance with the state of the art and recognised technical safety regulations. Nevertheless, its use may pose a risk to life and limbs of the user or third parties as well as damage to the product and other material assets. Therefore:

- Only operate product when it is in perfect technical condition and in accordance with its intended use.
- Installation and dismantling of product may only be carried out by expert personnel.
- Modification or repair of product only with written authorisation of REMBE®.
- Only use original parts or parts approved by REMBE®.

Non-observance of safety notes and action guidelines as well as improper handling of the product will lead to exclusion of warranty by the manufacturer.

Changes or non-observance of the underlying operating parameters of plant or system will lead to exclusion of warranty by the manufacturer.

2.4 Obligations of operator

The operator acts in a safety-conscious and hazard-conscious manner and in compliance with this operating manual. He prohibits all ways of work that pose a risk to personnel or third parties. The operator's obligations are:

Safety conscious working

- Read this operating manual and all other applicable documents completely before use and keep them accessible to personnel at all times.
- Observe the statutory and locally applicable safety and accident prevention regulations as well as the standards and directives that apply in the respective operating country.
- Inform assigned personnel about applicable regulations and accident prevention regulations.
- Observe applicable safety regulations for handling hazardous substances.
- Provide sufficient personal safety equipment.
- Carry out inspections and approvals required by official bodies, regulations, directives or standards in good time.
- Report and document operating faults.
- For installation in explosion hazardous areas, ensure professional potential equalisation.
- In the event of an activation, ensure that escaping media, fragments, flames or pressure cannot cause any damage to persons or to plant or system.

Protection and qualification of personnel

- Ensure that all work in all operating phases of the product is carried out by trained and authorised expert personnel only.
- Ensure that this operating manual and all applicable documents are read and understood by the personnel, in particular safety, maintenance and repair information.
- Define personnel's responsibilities, competences and supervision.

Conversions, repair work, modifications

- Obtain written authorisation from manufacturer before conducting any conversions, repair work or modifications to the plant or system.
- Only use original parts or parts approved by the manufacturer.



2.5 Obligations of personnel

Depending on the dangers at the installation position, use personal safety equipment, including:

- Safety footwear
- Protective helmet
- Protective goggles
- Protective gloves
- Hearing protectors
- Harness

3 Design and function

3.1 Function

The rupture disc is a safety device and is used for pressure relief in closed vessels, production plants and pipe systems.

The GRX rupture disc is supplied in the form of a monobloc which is installed directly in the respective installation position without an additional rupture disc holder. Monobloc has a cylindrical shape from which the defined burst membrane breaks out when the burst pressure is reached. After bursting, outer ring remains intact.

Monobloc as well as the optional vacuum / back pressure support are made of pure graphite. Burst membrane is additionally coated with pyrocarbon to seal the porous base material. Retaining ring is made of CFC carbon fibres (carbon fibre reinforced carbon).

When the specified pressure is reached, the rupture disc opens and discharges heat, flames, gases or solid particles, depending on the application. Escape can be sudden, under high pressure and extremely loud.



WARNING

Loud bang when pressure relief

Hearing damage possible.

- Set up a protective area around the rupture disc.

3.2 Design

3.2.1 Rupture disc GRX-UK(V)

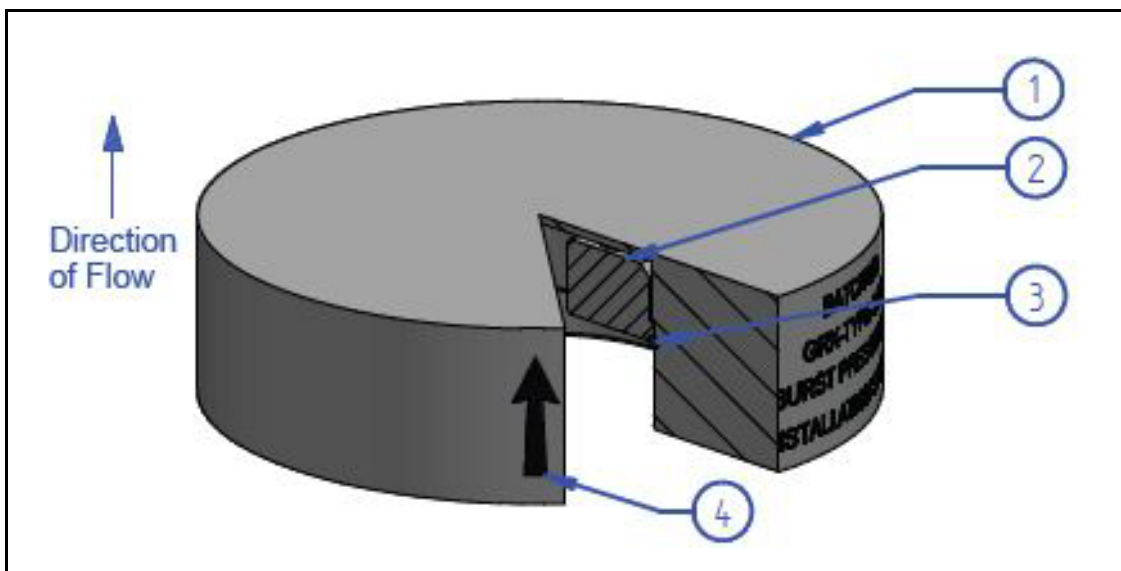


Fig. 3-1 Structure rupture disc GRX-UK(V)

- | | |
|-----------------------------|--|
| 1 Rupture disc | 3 Retaining ring (optional) |
| 2 Vacuum support (optional) | 4 Direction of flow at pressure relief |



Deviations between illustration and product are possible and have no influence on the function of the product.

3.2.2 Rupture disc GRX-MT

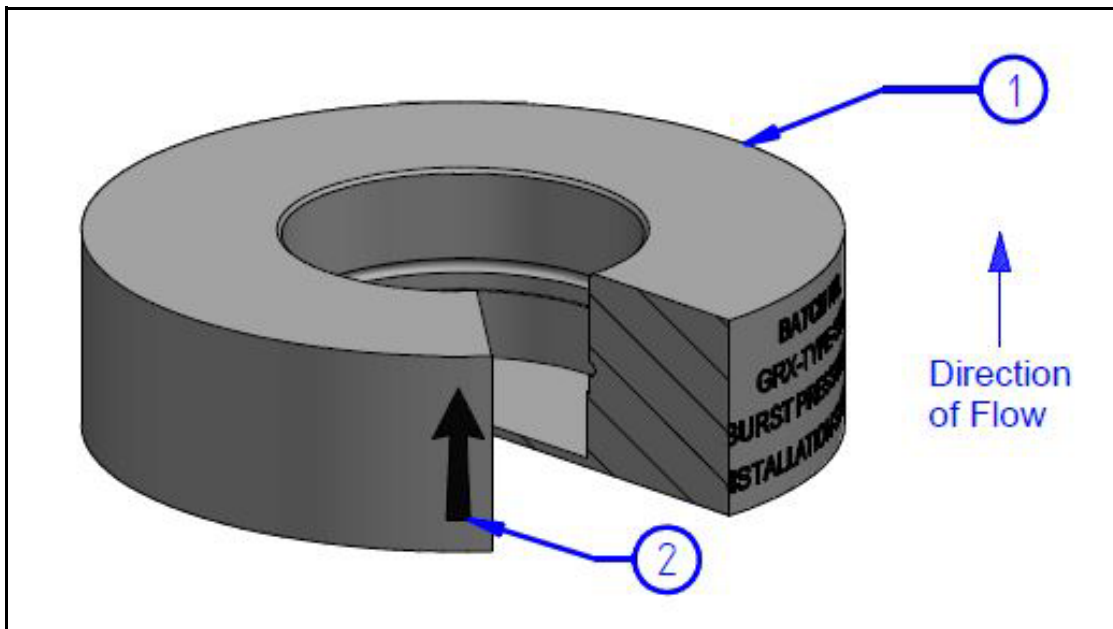


Fig. 3-2 Structure rupture disc GRX-MT

1 Rupture disc

2 Direction of flow at pressure relief



Deviations between illustration and product are possible and have no influence on the function of the product.

4 Identification

4.1 Marking of the rupture disc

The rupture disc is marked on the edge with the following information:

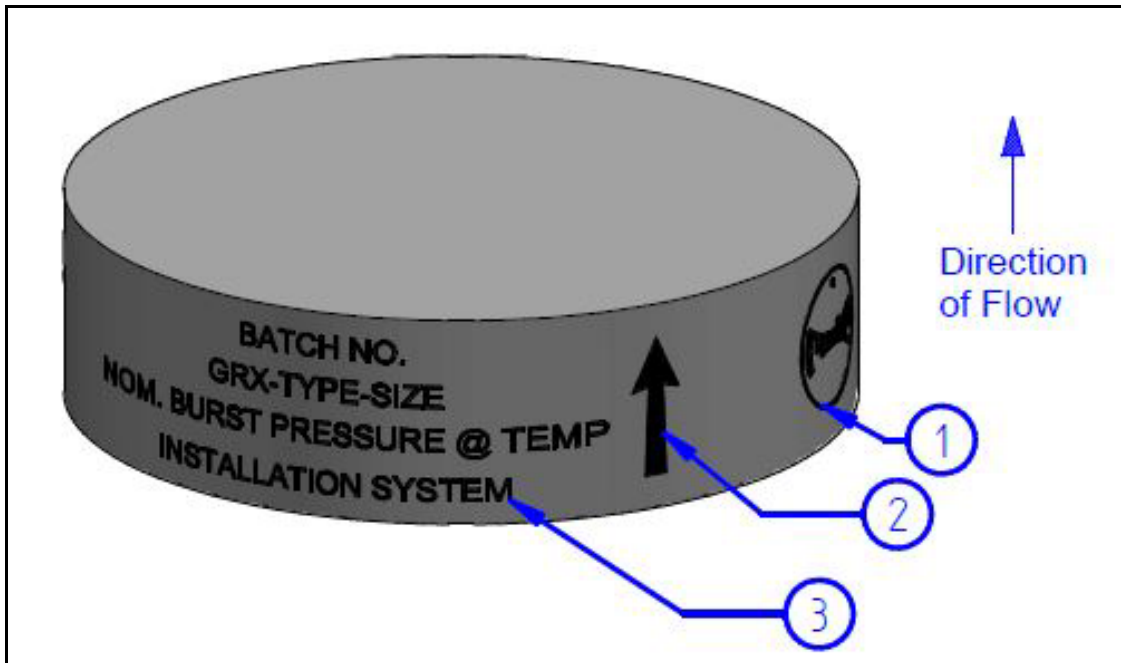


Fig. 4-3 Marking rupture disc GRX-UK(V)

- | | | | |
|---|--------------------------------------|---|-----------------|
| 1 | Manufacturer logo | 3 | Further marking |
| 2 | Direction of flow at pressure relief | | |

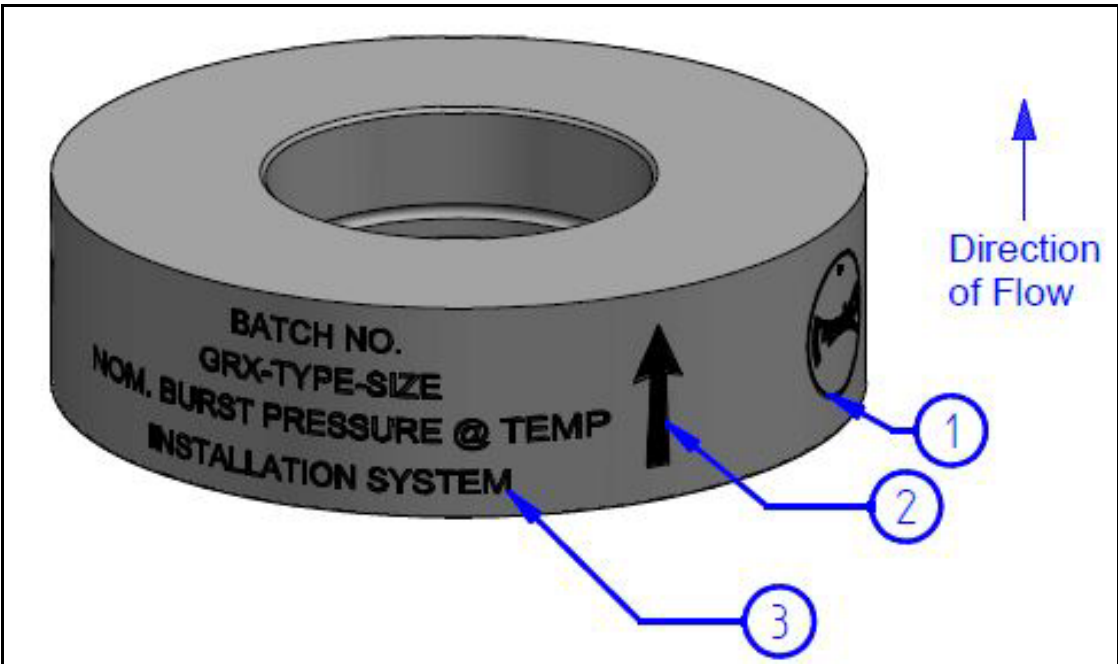


Fig. 4-4 Marking rupture disc GRX-MT

- | | | | |
|---|--------------------------------------|---|-----------------|
| 1 | Manufacturer logo | 3 | Further marking |
| 2 | Direction of flow at pressure relief | | |

Marking	Description
REMBE®	Manufacturer
Batch No.	Batch number including year of manufacture
Typ / type	Rupture disc type
DN / Size	Nominal width
Material	Material of the rupture disc
Nom. Burst Pressure	Nominal burst pressure in bar g
Temp.	Defined temperature for burst pressure
Installation system	Installation situation

Tab. 4-5 Marking of the rupture disc GRX-UK(V) and GRX-MT

4.2 Batch number encoding

Example	Year of production	Month	Batch number
22 01 155	22 xx xxx Year of production: 2022	xx 01 xxx Month: January	xx xx 155 Batch: 155

5 Transport and storage

5.1 Checking delivery condition and scope of delivery

- ☑ Product is in original packaging.
 - 1. Carefully open original packaging on delivery.
 - 2. Compare scope of delivery with delivery note and check for completeness.
 - 3. Compare batch number of product with delivery note.

NOTICE

Improper handling

Material damage at rupture disc, functional impairment

- Only hold rupture disc at the edge or tag plate.
 - Touch rupture disc carefully.
-
- 4. Check the product for transport damage.
 - 5. Report any transport damages on product or packaging to carrier immediately.
 - 6. Do not use damaged product but contact REMBE®.
 - 7. If product is undamaged: Carefully close original packaging with product.
 - ▶ Product with perfect condition on delivery lies in original packaging or
 - ▶ material damages at product or original packaging are reported to carrier and REMBE®.



Due to the coating of the rupture disc, fingerprints are possible and cannot be removed. These have no influence on the functionality and safety of the rupture disc.

To prevent fingerprints from forming, wear gloves when touching.

5.2 Lifting and transport

- ☑ Product in original packaging and perfect condition.
 - 1. Properly lift product, transport and lower product at place of destination.
 - 2. Secure product against unauthorised access.
- ▶ Product is ready for professional installation or storage.

5.3 Storage

NOTICE

Improper storage

Material damage to product

- Store product in original packaging.
- Secure product against unauthorised access.
- Ensure, that place of storage is dry, frost-free and vibration-free.

6 Installation

6.1 General conditions

- ☑ Plant or system is shut down and depressurised.
- ☑ Plant or system is secured against unintentional re-activation.
- ☑ No media circulating in plant or system.
- ☑ For installation in explosion endangered areas: appropriate potential equalisation is secured.

6.2 Conditions to installation location and pressure relief

- ☑ Installation position is selected in compliance with the safety regulations.
- ☑ Installation position is accessible without restriction and without danger for assembly, dismantling and maintenance.
- ☑ Work areas and escape routes are not restricted by installation of the product.
- ☑ Identifiability and access to the type plate / marking are ensured.
- ☑ Rupture disc fits between existing flanges.
- ☑ Dimensions from rupture disc correspond to opening at installation position.
- ☑ Deposits of dust, dirt, rain, snow or process media on the rupture disc are not possible.
- ☑ Minimum vent area in the pipe system must be able to safely relieve the required discharge capacity.
- ☑ Pressure release into operating rooms or areas subject to fire and explosive atmospheres is prohibited!
- ☑ Pressure release takes place in a controlled manner in a safe area that is marked according to the risk potential.
- ☑ Escaping media, heat, flames, liquids, gases or solid parts are discharged in a controlled manner into a safe area and do not pose a hazard to persons, property or the environment.
- ☑ There is no hazard to safety-relevant plant or system parts.

6.3 Check ambient conditions

- ☑ Information on the type plate / from marking corresponds to the required technical specifications of the customer and order confirmation.
- ☑ Operating parameters of plant or system at installation position comply with required technical specifications of the customer and product-specific documentation and have not been changed since then.
- ☑ Intended direction of flow when the pressure release corresponds to directional arrow on rupture disc.
- ☑ Complete opening of the rupture disc is guaranteed.
- ☑ Dimensions of the rupture disc match dimensions of flanges and gaskets, see chapter 11 *Technical data*.

6.4 Install

6.4.1 Installing the rupture disc in the plant or system



DANGER

Use of damaged rupture disc

Bursting plant or system: Death by being slain, severe burns, poisoning by escaping media

- Touch rupture disc carefully and only at edges.
- Before use: check rupture disc for any damages.
- Use of damaged rupture disc is prohibited!

- ✓ Suitable, approved gaskets between flange and rupture disc are available. Outside diameter of gasket meets requirements from chapter 11 *Technical data*, page 24.
- ✓ The execution and material of the gaskets depend on the type of plant and the medium in the plant. Specifications of the plant manufacturer and operator were followed.
- ✓ Information on torques from the gasket manufacturer, plant manufacturer and bolts / threaded bolts manufacturer has been observed.
- ✓ Danger area is secured against unauthorised access.
 1. Loosen the nuts of the bolts / threaded bolts on flanges.
 2. Remove and store bolts / threaded bolts.
 3. Place rupture disc with gaskets (customer provided) between flanges and centre.
 4. Ensure that rupture disc is centred and parallel between the sealing surfaces of the flange, and that it is not twisted.
 5. Ensure that the direction arrows on the rupture disc correspond to the intended direction of flow when the pressure release in the system is carried out.



DANGER

Rupture disc installed the wrong direction

Bursting plant or system: Death by being slain, severe burns, poisoning by leaking medium

- Rupture disc must be installed in the intended direction of flow during pressure release.
- Direction arrows on the rupture disc must correspond to the intended direction of flow during pressure release.

6. Insert bolts / threaded bolts through the bore holes in the flanges.
 7. Tighten the nut handtight on each / every bolt / threaded bolt.
 8. Loosen the pre-assembly screws until they sit loosely and rotatably in the thread.
 9. Tighten the bolts / threaded bolts diagonally with the correct torque in stages. Observe the max. permissible torques, see chapter 11 *Technical data*, page 24.
 10. Check correct leak-tightness as per instructions of the plant manufacturer.
- The rupture disc unit is professionally installed in the system.

**NOTICE****Incorrect torque values**

Functional impairment by material damage of rupture disc

- Use right torque values: Follow torque value information of manufacturers of gasket, plant or system and screws / threaded bolts.
- Use torque wrench.

7 Commissioning and operation

7.1 Commissioning plant or system with the rupture disc

**DANGER****Closed discharge pipe**

Bursting plant or system: Death by being slain, severe burns, poisonings by escaping media

- Never close inlet and outlet of rupture disc.

**WARNING****Escaping heat, flames, media and fragments of the rupturing graphite rupture disc**

Hazard for humans and the environment

- Relieve only in secured area.

- ☒ The rupture disc is properly installed into plant or system (see chapter 6.4 *Install*, page 17).
- ☒ Instructions of operational safety are present and are read and understood.
- ☒ Workplaces, working equipments and relating parts of plant or system are tested.
- ☒ Test result is documented.
 1. Switch on plant or system according to operator's instructions.
- Plant or system is protected against overpressure.



8 Measures after activation

8.1 Securing danger area



WARNING

Escaping toxic media

Poisoning and chemical burn of skin and airways.

- Do not touch or breathe escaped media.
- Wear personal safety equipment (according to operator's instructions and legal regulations).
- Remove escaped media according to safety data sheet.

-
- ☑ Rupture disc has relieved pressure.
 - ☑ Safety regulations of plant manufacturer are known.
 1. Shut down plant or system immediately according to regulations of operator.
 2. Alert responsible safety specialists.
 3. Shut off the danger area with a tape.
 4. Follow safety regulations of plant operator.
 5. Inform all persons present.
 6. Handle escaped media according to manufacturer's specifications and safety data sheets.
 7. Prepare plant or system for replacement of rupture disc according to instructions of plant operator.
 - ▶ Danger area is secured against unauthorised access.
 - ▶ Plant or system is in a safe condition according to regulations of operator.

8.2 Replacing rupture disc



DANGER

Running and pressurised plant or system, moving parts

Death by being slain, severe burns, poisonings by escaping media

- Before working on plant or system: shut down and secure against uncontrolled machine movements.
 - Secure plant or system against unintentional re-activation.
 - Ensure that there is no pressure or medium circulating in plant or system.
-

**CAUTION****Sharp edges at opened rupture disc**

Cut injury

- Wear protective gloves.
- Touch rupture disc carefully.

-
- ☑ Rupture disc has relieved pressure or needs to be replaced.
 - ☑ New, matching original rupture disc is present undamaged in original packaging.
 - ☑ Suitable gaskets for flange and rupture disc are available (according to diameter, see Chapter 11 *Technical data* page 24).
 - ☑ The gasket manufacturer's torque specifications have been observed.
 - ☑ Danger area is secured against unauthorised access.
 - ☑ The plant or system is in a safe condition according to the specifications of the plant operator.
 1. Dismantle rupture disc professionally (see Chapter 10.1 *Dismantling*, page 22).
 2. Dispose of the rupture disc safely (see Chapter 10.2 *Disposing*, page 23).
 3. Carefully clean the sealing surfaces of the undamaged flange with a clean, soft cloth.
 4. Clean the sealing surfaces of the rupture disc carefully with a clean, soft cloth.
 5. New rupture disc install professionally (see Chapter 6.4 *Install*, page 17).
 - Exchange of rupture disc has been carried out professionally.

9 Inspection and cleaning



DANGER

Dirt / deposits on rupture disc (unsafe pressure relief)

Death by being slain, severe burns / poisoning by escaping media

- Control and clean rupture disc regularly (see chapter 9.2 *Inspection and cleaning*, page 21).
- Remove deposits on rupture disc immediately (see chapter 9.2 *Inspection and cleaning*, page 21).

9.1 Maintenance table



Depending on the application, the intervals given can be shortened or extended.

Interval	Task
Half-yearly	Tighten screws / threaded bolts at flanges with torque wrench
Annually	Visual inspection for deposits, damages and corrosion
As necessary	Clean rupture disc
In case of damages	Replace rupture disc

Tab. 9-6 Maintenance table

9.2 Inspection and cleaning

- ☑ Visual inspection has shown that cleaning is necessary.
- ☑ Inspection or cleaning is pending according to maintenance table (see chapter 9 *Inspection and cleaning*, page 21).
 1. Dismantle rupture disc properly (see chapter 10.1 *Dismantling*, page 22).
 2. Carry out visual inspection of rupture disc and rupture disc holder.
 3. Carefully clean rupture disc from both sides with soft, dry cloth.
 4. Accurately clean sealing surfaces of rupture disc holder and rupture disc with soft, dry cloth.
 5. Properly install rupture disc (see chapter 6 *Installation*, page 16).
- Rupture disc and rupture disc holder have been properly inspected and cleaned.



Due to the coating of the rupture disc, fingerprints are possible and cannot be removed. These have no influence on the functionality and safety of the rupture disc.

To prevent fingerprints from forming, wear gloves when touching.

**DANGER****Running and pressurised plant or system, moving parts**

Death by being slain, severe burns, poisonings by escaping media

- Before working on plant or system: shut down and secure against uncontrolled machine movements.
- Secure plant or system against unintentional re-activation.
- Ensure that there is no pressure or medium circulating in plant or system.

NOTICE**Improper cleaning**

Material damage at rupture disc, unsafe pressure relief

- Clean rupture disc according to specifications.
- Handle rupture disc carefully.

10 Dismantling and disposing

10.1 Dismantling

**DANGER****Running and pressurised plant or system, moving parts**

Death by being slain, severe burns, poisonings by escaping media

- Before working on plant or system: shut down and secure against uncontrolled machine movements.
- Secure plant or system against unintentional re-activation.
- Ensure that there is no pressure or medium circulating in plant or system.

**WARNING****Escaping toxic media**

Poisoning and chemical burn of skin and airways.

- Do not touch or breathe escaped media.
- Wear personal safety equipment (according to operator's instructions and legal regulations).
- Remove escaped media according to safety data sheet.

- ☒ Rupture disc in a plant or system must be replaced or disposed of.



1. Loosen and remove all bolts / threaded bolts on the flange.



CAUTION

Sharp edges at opened rupture disc

Cut injury

- Wear protective gloves.
- Touch rupture disc carefully.

2. Insert the rupture disc between flanges.

- Professional dismantling of rupture disc has been carried out.

10.2 Disposing



CAUTION

Toxic operating substances and materials

Pollution, contamination of air and ground water

- Recycle operating substances and materials separately and according to applicable regulations.

- ☑ The rupture disc is properly dismantled.

1. Recycle materials separately.
2. Dispose materials according to applicable regulations.

- Environmentally friendly disposal of rupture disc is ensured.

11 Technical data

11.1 Dimensions

11.1.1 Rupture disc GRX-UK for installation between flanges

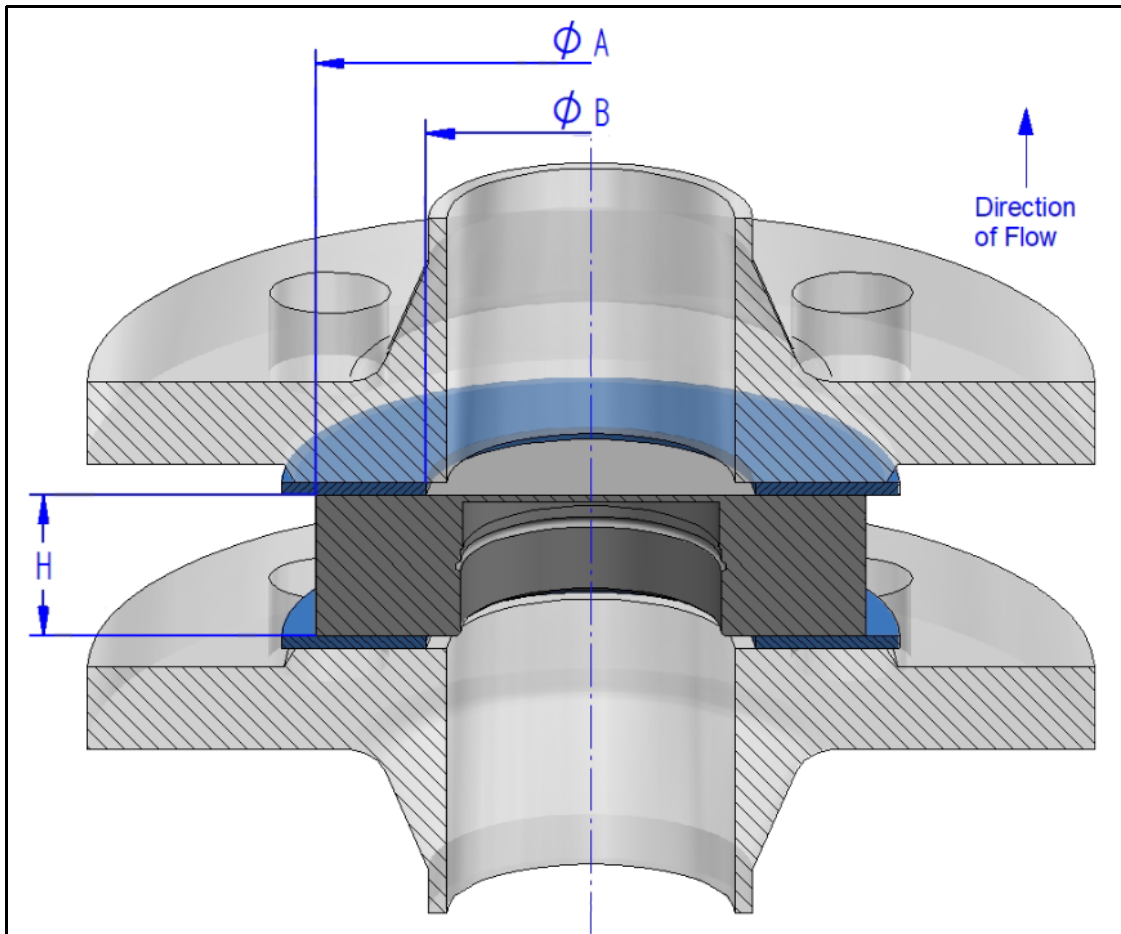


Fig. 11-5 Dimensions GRX[®]-UK for installation between flanges

ØA Outer diameter rupture disc

H Installation height

ØB Inner diameter gasket

DN	/mm	/in	Ø A	/mm	H	Min. vent area
						/cm ²
15		½	44		16,0	2,3
20		¾	51		16,0	3,1
25		1	61		22,3	4,9
32		1¼	71		22,3	8
40		1½	82		22,3	11
50		2	92		22,3	19
65		2½	116		22,3	33
80		3	128		22,3	50
100		4	151		22,3	78
125		5	178		22,3	122
150		6	206		22,3	176
200		8	261		24,5	310
250		10	300		33,0	485

Tab. 11-7 Dimensions rupture disc GRX-UK

11.1.2 Rupture disc GRX-UKV for installation between flanges

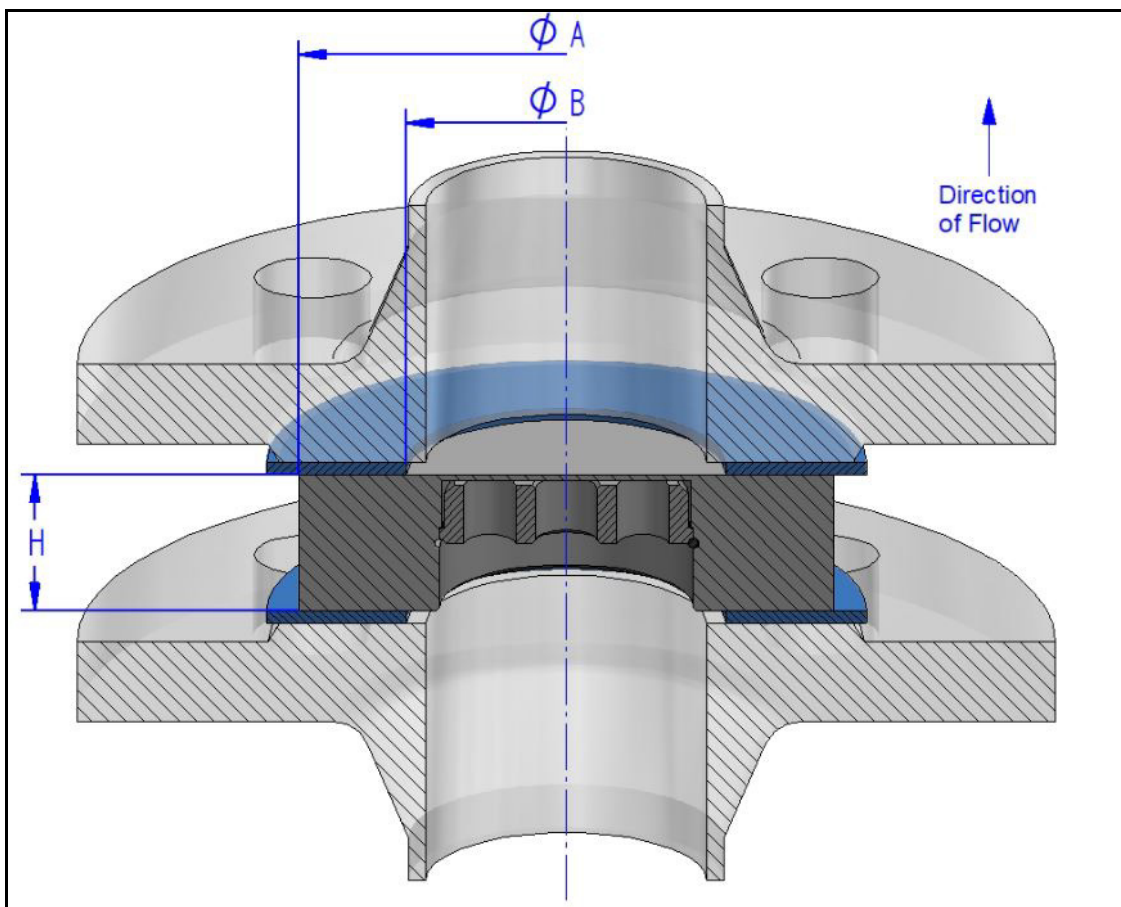


Fig. 11-6 Dimensions GRX®-UK for installation between flanges

ØA Outer diameter rupture disc

H Installation height

ØB Inner diameter gasket

DN		Ø A	H	Min. vent area
/mm	/in	/mm		/cm ²
25	1	61	22,3	1,9
32	1¼	71	22,3	3,5
40	1½	82	22,3	4,7
50	2	92	22,3	10,0
65	2½	116	22,3	18,0
80	3	128	22,3	29,0
100	4	151	22,3	48,0
125	5	178	22,3	72,0
150	6	206	22,3	102
200	8	261	24,5	180
250	10	300	33,0	280

Tab. 11-8 Dimensions rupture disc GRX-UKV

11.1.3 Rupture disc GRX-MT for installation between flanges

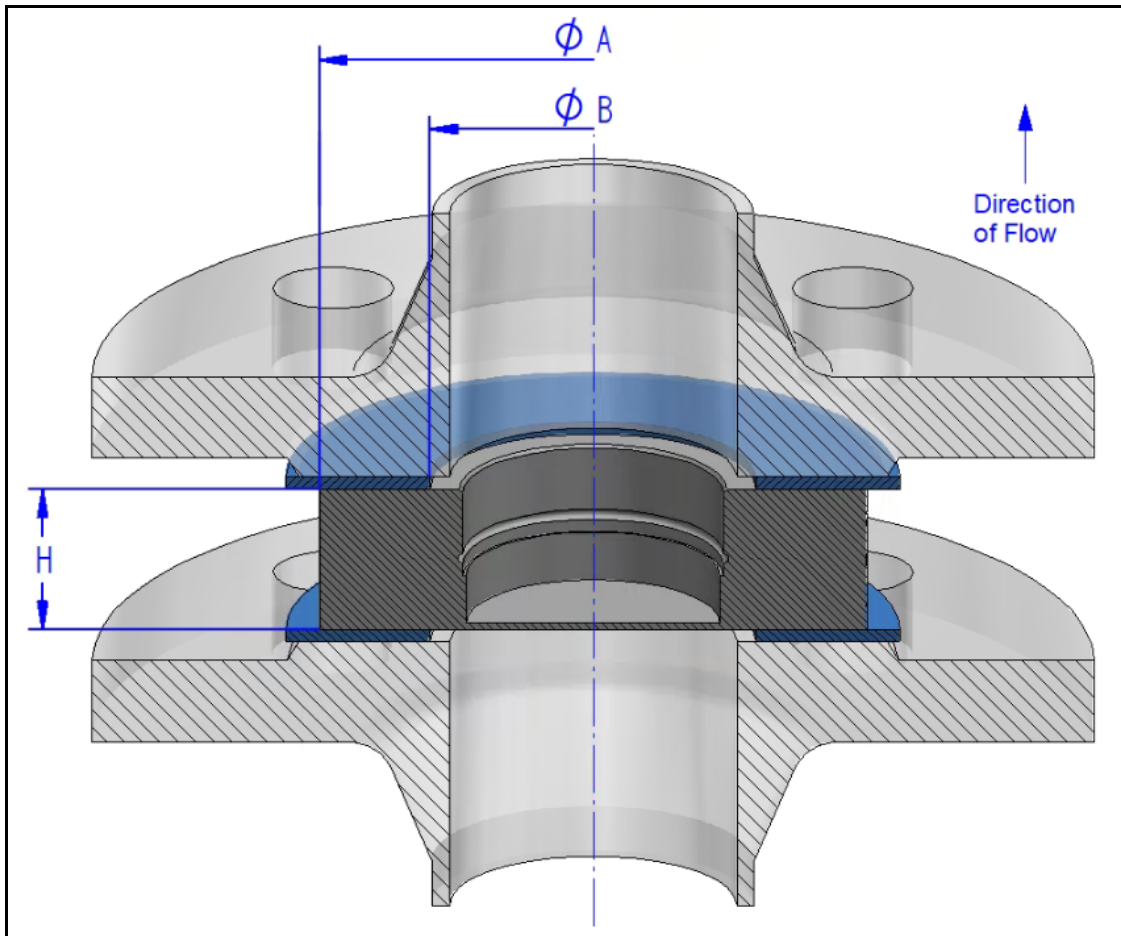


Fig. 11-7 Dimensions GRX[®]-UK for installation between flanges

ØA Outer diameter rupture disc
ØB Inner diameter gasket

H Installation height

DN		Ø A	H	Min. vent area
/mm	/in	/mm		/cm ²
15	½	44	16,0	2,3
20	¾	51	16,0	3,1
25	1	61	22,3	4,9
32	1¼	71	22,3	8
40	1½	82	22,3	11
50	2	92	22,3	19
65	2½	116	22,3	33
80	3	128	22,3	50
100	4	151	22,3	78
125	5	178	22,3	122
150	6	206	22,3	176
200	8	261	24,5	310
250	10	300	33,0	485

Tab. 11-9 Dimensions rupture disc GRX-MT

11.1.4 Inner diameter gasket and torque values



The inside diameter of the flat gasket must be observed. The inner diameter of the gasket must not be less than the minimum!

DN		Ø B, min. allowed	Screws / bolts		Max. torque
/mm	/in	/mm	Number	Size	/Nm
15	½	22	4	M10	15
20	¾	28	4	M10	15
25	1	34	4	M10	15
32	1¼	43	4	M12	25
40	1½	49	4	M12	25
50	2	61	4	M12	25
65	2½	77	4	M12	25
80	3	89	4	M16	60
100	4	115	4	M16	60
125	5	141	8	M16	60
150	6	169	8	M16	60
200	8	220	8	M16	60
250	10	273	12	M16	60

Tab. 11-10 Min. Inner diameter gasket and max. torque values for installation rupture disc GRX



Specified torque applies to threaded connectors with coefficient of friction of approx. 0.14 and bolt material A2-/A4-50.

On threaded connectors made of stainless steel, a lubricant must be applied to prevent a locking. REMBE® recommends using grease paste (e.g. Microgleit L410 or equivalent).

Torques can vary depending on the gasket used (PQR value, surface pressure, type, shape), bolts type and size, material, coefficient of friction or yield point utilisation and must be designed by the operator using specified parameters.



12 Spare parts and accessories



Following spare parts and accessories can be ordered from REMBE®. Please keep batch number to hand (see tag plate).

12.1 Spare parts

- Original rupture disc
- Gaskets

12.2 Accessories

- Signalling membrane SB(-S) / SBK-S



13 Contact

13.1 Headquarters

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