

With Safety.

## Datasheet Positive pressure demand valve

4500 PL/A

Designation: Compressed air hose device 4500 PL/A overpressure M 45x3

The basic device consists of a positive pressure regulator with integrated warning device (function only in conjunction with pressure reducer DM 1900), threaded connection M 45x3 in accordance with EN 148-3, regulator hose with strain relief and plug nipple for breathing air coupling AK2 and waist belt made of

black PP webbing with heavy-duty buckle

Description: The demand valve provides the person wearing the breathing apparatus with the

required amount of breathing air. The regulator is attached to the breathing

connection (e.g. BRK 820 full face mask).

The air is supplied via the DZS 9 compressed air supply hose and a suitable

compressed air source with breathing air in accordance with DIN EN 12021.

Article-Number: 935153

Standard: DIN EN 14593-1 Respiratory protective devices - Compressed airline

breathing apparatus with demand valve Respiratory protective devices - Threads for breathing connections - Part 3: Threaded

connection M 45 x 3

Approval: EU type-examination certificate in accordance with module B section 6.1

of the PPE Regulation (EU) 2016/425

EU type-examination certificate: 10723 A/23/4 PPE

valid until 19/04/2028

**DIN EN 148-3** 

Connection: M 45x3 threaded connection in accordance with EN 148-3

Weight: Basic device approx. 900 grams

Dimensions: largest diameter: approx. 85 mm, stem depth: approx. 85 mm

Materials: Regulator: Plastic, black

LA membrane: silicone, transparent
LA hose with plug nipple: Ethylene-propylene-diene black / brass, nickel-plated

LA hose with plug nipple: Ethylene-propylene-diene black / brass, nickel-plated Strain relief coupling: Brass, nickel-plated

Strain relief plug nipple: Stainless steel

Strain relief connection

strap loop: Polyoxymethylene black Body strap: Polypropylene

Working pressure: 5,5 +/- 1 bar

Static overpressure: 2.2 mbar - 3.9 mbar

Revision 08.2024 - Errors and omissions excepted. All data are non-binding guide values.



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Marking: BartelsRieger

YYMM A 001

Breathing apparatus

YY = year of manufacture, MM = month of manufacture

A = overpressure version M45x3 001 = consecutive number

The body harness strain relief is labelled with the series designation 4500 PL, the individual part designation 'Strain relief ZE 2/2' and 'MDW' if applicable, the month and year of manufacture, the CE marking, the European standard with year, the note to observe the instructions for use and the full Bartels-Rieger company address.

Directions for use instructions:

The use of compressed air hose devices requires a basic knowledge of the function and handling of breathing apparatus. Information on this can be found in the trade association regulations and rules, in particular in DGUV Rule 112-190.

The use of respiratory protective devices generally means additional strain for the person wearing the respiratory protective device.

Most respiratory protective devices require occupational medical precautions in accordance with the 'Ordinance on Occupational Medical Precautions' (ArbMedVV).

The devices serve as self-contained breathing apparatus (insulating devices) and are mainly used when normal filter respiratory protection is no longer sufficient in contaminated or low-oxygen ambient atmospheres or when exhausted filters have to be replaced too frequently during long-term use (cost-effectiveness!).

It should be noted that these are generally location-dependent breathing apparatus, i.e. the person wearing the breathing apparatus is bound to a certain radius of action due to a hose connection to the breathing air source

Limits of use:

in accordance with DGUV Rule 112-190: compressed air hose device with full face mask and demand valve in positive pressure version

Protection level (up to which multiple of the limit value the respiratory protective device offers sufficient protection against the pollutants in the ambient atmosphere): > 1,000 (A limitation of the area of use due to high concentrations of pollutants cannot be derived from the known use of these types of devices)

The possible operating time generally depends on the type of air supply. If breathing air is supplied by a compressor with downstream breathing air treatment / filtration or from a breathing air ring line in accordance with EN12021, a practically unlimited supply of air is available.

If the supply is provided by compressed air cylinders and cylinder pressure reducers, the stored volume must be taken into account.

Service life limits are intended to avoid overstressing the person wearing the respirator. They apply to work assignments in accordance with the operating instructions and are specified in DGUV Rule 112-190.

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Rules / regulations: Regulation (EU) 2016/425 on personal protective equipment

PPE Utilisation Ordinance (PSA-BV)

Ordinance on Occupational Health Care (ArbMedVV)

BGV A1 Employer's Liability Insurance Association Regulation for Safety and Health

at Work - Accident Prevention Regulation - Principles of Prevention

DGUV Rule 112-190 Employer's liability insurance association rules for safety and

health at work - 'Use of respiratory protective equipment'

Hazardous Substances Ordinance (GefStoffV) with associated Technical Rules for Hazardous Substances (TRGS), and other Technical Rules for Hazardous

Substances.

## Order details

Designation	Description	Order no.
Basic unit 4500 PL/A	Overpressure LA with strain relief and waist belt	935153
Full face mask BRK 820 A	according to EN 136 class 3 with M45x3 connection	111204
Strain relief ZE 2/2 MDW Replacement warning whistle Body belt Protective cap AK2	with medium pressure warning whistle MDW without waist belt MDW for Airvalve ZE 2/2 MDW < 3.5 to > 7.0 bar made of PP webbing with heavy-duty buckle Protective cap plug nipple for LA hose AK2	201839 201846 840609 202374
DZS9	Compressed air supply hose 5m	941114
DZS9	Compressed air supply hose 10m	941115
DZS9	Compressed air supply hose 15m	941116
DZS9	Compressed air supply hose 20m	941117
DZS9	Compressed air supply hose 25m	941141
DZS9	Compressed air supply hose 50m	941100
Pressure regulator DM1900-MDW with 2x breathing air coupling AK2		200693
Pressure reducer DM1900-MDW with 4x breathing air coupling AK2		200696
Pressure regulator DM1900-iMDW with 2x breathing air coupling AK2		200697
Pressure reducer DM1900-iMDW with 4x breathing air coupling AK2		200698

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