



BD 96 – Compressed Air Breathing Apparatus System

[Proven and reliable. Your safety.]





The System BD 96

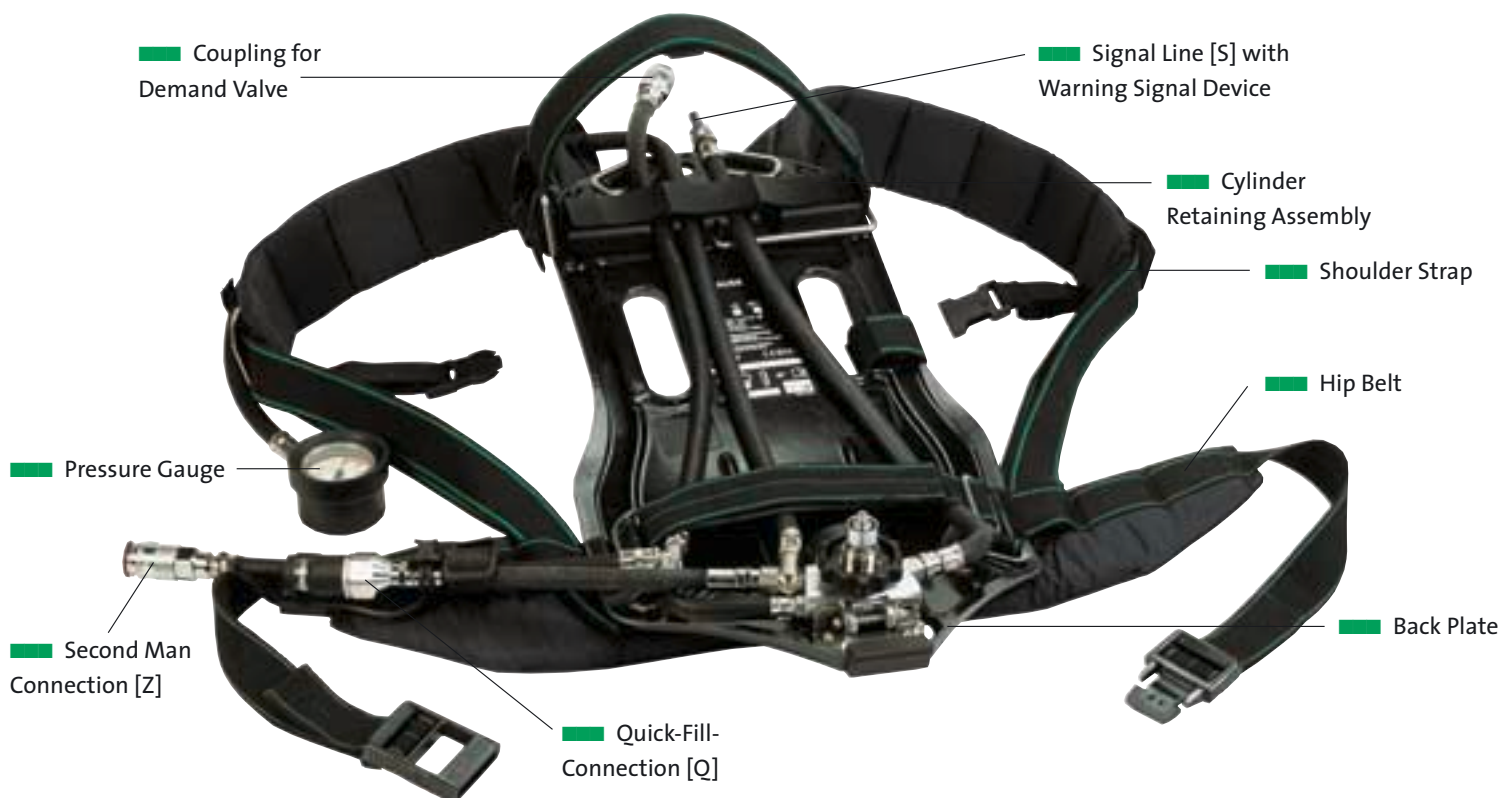
[Perfect technology – used throughout the world]

The MSA Compressed Air Breathing Apparatus BD 96 is the system for fire fighting, rescue, and industrial applications which is used and proven for years throughout the world. Safety and reliability, combined with its great variability at vantage costs have reached their optimum.

The Basic Apparatus

BD 96 has an ergonomic carrying plate of sturdy heat resistant plastic. Its optimized carrying harness is made of flame retardant modacrylic aramide. The comfortable hip-pad ensures equal weight distribution and comfort.

Freely swiveling, luminescent pressure gauge is readable in any position. Cylinder retaining strap with large, easy-to-grip tightener with catch lock.



The BD 96 apparatus is certified according to EN 137 as well as the “Flame Engulfment Test” – pr EN 137. The BD 96 offers a choice of options for all requirements, like the warning signal near the ear [S], Quick-Fill [Q] or second connection [Z]. The cylinder holder with variable strap accomodates one or two air cylinders with 4 to 6.9 liters.

Padded Nomex-Modacrylic harness for wearing comfort. Shoulder pads and the padded waist belt evenly distribute weight and dynamic forces



The freely revolvable pressure gauge is readable from any position. As option: the Integrated Control Unit ICU [see page 4]



Options: Signal line, Second connection, Quick-Fill



BD96-Z



BD96-S



BD96-Q

You select your BD 96 exactly to your requirements:

- 200 bar or 300 bar technology
- Normal pressure or positive pressure
- 1 compressed air cylinder or 2
- Steel cylinder or composite cylinder
- Signal line [S]
- Second connection [Z]
- Quick-Fill [Q]
- Standard gauge or ICU

You decide your optimal outfit!

BD 96-S

Bringing the warning signal near the user's ear. Medium pressure dosed, with constant sound level, for reliable recognition.

BD 96-Z A

Second lung governed demand valve is connected directly to the medium pressure line – to rescue endangered or injured persons.

BD 96-Q

With an easy-to-operate pressure coupling 300 bar cylinders can be recharged directly in less than one minute without doffing the apparatus.

ICU – Integrated Control Unit

Use modern electronics to make your work safer!

The ICU calculates based on your current air consumption, how long your air supply will last, also, if required, in case of a longer retreat time.

There is an audible warning when the pressure drops below 150, 100 and 60 bar. The integrated motion sensor gives alarm if there is no movement for 20 seconds.

In an emergency you can also give alarm manually.

With a large button you can switch from the individual readings of cylinder pressure, remaining service time and temperature.

Symbols clearly indicate which reading is being shown. Of course the display can be illuminated.

The ICU records all data up to 30 work applications. All data can be read and processed with a software (accessory) via the infrared interface. All alarm levels can be freely set with the software.

As soon as the cylinder valve is opened, the ICU is activated. With the key version ICU-S, the key is deposited at the operations centre for identification.

In order that you can quickly read the remaining cylinder pressure, we have retained the mechanical pressure gauge.

The ICU: proven optics plus additional safety!

Please refer to our detailed leaflet

ID 01-155.2



The ICU displays:

- Remaining service time
- Pressure
- Temperature

And gives Alarm

- At low cylinder pressure
- If the apparatus user does not move
- At high temperature



ICU

Lung Governed Demand Valves

LA 96 – Negative Pressure

The small and light lung governed demand valve LA 96-N for normal pressure is connected at the most distant point of the mask and does not obstruct the field of vision.

Highly efficient materials, with servo-controlled air supply, and the pivoting and extremely flexible medium pressure line cater for safety and comfort.



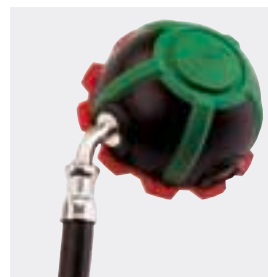
Normal pressure demand valve LA 96-N with standard thread connection



Positive pressure demand valve LA 96-AS with plug connection



Positive pressure demand valve LA 96-AE with M 45 x 3 thread connection



AutoMaXX-AS-C combines the standard M 45 x 3 thread with the handy plug connector



LA 96 – Positive Pressure

The lung governed demand valves LA 96-AE and LA 96-AS automatically switch to safe positive pressure with the first breath. This MSA development is characterized by breathing comfort and reliability.

AutoMaXX® Series

The BD 96 Basic Apparatus is also approved with the modern AutoMaXX® series of demand valves. AutoMaXX® features a handy semiglobe shaped housing and coloured operating buttons which can be easily pushed also with gloves. First breath activation is exceptionally easy and noise level is very low.

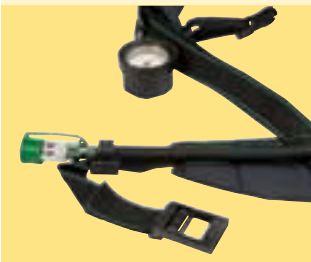
The valve assembly does not need repeat lubrication thus is extraordinarily maintenance friendly. Please refer to our detailed leaflet 01-110.1.



AutoMaXX® with positive pressure

BD 96 Components & Ordering Information

[Basic Apparatus]



BD 96-Z



BD 96-S



BD 96-Q



ICU

BD 96 Basic Apparatus

| | |
|----------|-----------------------------|
| D4075700 | Basic Apparatus BD 96 |
| D4075701 | Basic Apparatus BD 96-S |
| D4075702 | Basic Apparatus BD 96-Z |
| D4075703 | Basic Apparatus BD 96-S-Z |
| D4075705 | Basic Apparatus BD 96-Q |
| D4075706 | Basic Apparatus BD 96-S-Q |
| D4075707 | Basic Apparatus BD 96-Z-Q |
| D4075708 | Basic Apparatus BD 96-S-Z-Q |

BD 96 Basic Apparatus with ICU

| | |
|----------|--------------------------------------|
| 10014440 | Basic Apparatus BD 96 with ICU |
| 10014429 | Basic Apparatus BD 96-S with ICU |
| 10014428 | Basic Apparatus BD 96-Z with ICU |
| 10014427 | Basic Apparatus BD 96-S-Z with ICU |
| 10014426 | Basic Apparatus BD 96-Q with ICU |
| 10014425 | Basic Apparatus BD 96-S-Q with ICU |
| 10014424 | Basic Apparatus BD 96-Z-Q with ICU |
| 10014423 | Basic Apparatus BD 96-S-Z-Q with ICU |

BD 96 Basic Apparatus with ICU-S (Key version)

| | |
|----------|--|
| 10016235 | Basic Apparatus BD with ICU-S |
| 10016236 | Basic Apparatus BD 96-S with ICU-S |
| 10016237 | Basic Apparatus BD 96-Z with ICU-S |
| 10016238 | Basic Apparatus BD 96-S-Z with ICU-S |
| 10016239 | Basic Apparatus BD 96-Q with ICU-S |
| 10016240 | Basic Apparatus BD 96-S-Q with ICU-S |
| 10016241 | Basic Apparatus BD 96-Z-Q with ICU-S |
| 10016242 | Basic Apparatus BD 96-S-Z-Q with ICU-S |

Legend: S = Signal line · Z = Second connection · Q = Quick-Fill adapter

[Demand Valves]

[Full Face Masks]

Plug-in connection [for positive pressure]



LA 96-AS

D4075850 LA 96-AS
 D4075906 LA 88-AS

For AutoMaXX-AS see Leaflet 01-110.1

3S Masks

| | |
|----------|-------------------|
| D2055751 | 3S-PS |
| D2055785 | 3S-Vg-PS |
| D2055792 | 3S-EZ-PS |
| D2055764 | 3S-PS Silicone |
| D2055787 | 3S-Vg-PS Silicone |
| 10042637 | 3S-H-PS-F1 |
| 10044439 | 3S-H-PS-F1, small |
| 10044132 | 3S-H-PS-Vg-F1 |



Thread connection M 45 x 3 [for positive pressure]



LA 96-AE

D4075851 LA 96-AE
 D4075909 LA 88-AE

For AutoMaXX-AE see Leaflet 01-110.1

3S Masks

| | |
|----------|-------------------|
| D2055741 | 3S-PF |
| D2055783 | 3S-Vg-PF |
| D2055791 | 3S-EZ-PF |
| D2055763 | 3S-PF Silicone |
| D2055784 | 3S-Vg-PF Silicone |
| 10042636 | 3S-H-PF-F1 |
| 10044437 | 3S-H-PF-F1, small |
| 10044131 | 3S-H-PF-Vg-F1 |



Standard thread connection [for negative pressure]



LA 96-N

D4075852 LA 96-N
 D4075960 LA 88-N
 D4074808 LA 83

For AutoMaXX-N see Leaflet 01-110.1

3S Masks

| | |
|----------|---------------------|
| D2055000 | 3S |
| D2055779 | 3S, small |
| D2055772 | 3S-V |
| D2055774 | 3S-Vg |
| D2055767 | 3S-EZ |
| 10013877 | 3S with Transponder |
| D2055718 | 3S Silicone |
| D2055769 | 3S-V Silicone |
| D2055711 | 3S-Vg Silicone |
| 10042635 | 3S-H-F1 |
| 10044435 | 3S-H-F1, small |
| 10044109 | 3S-H-V-F1 |
| 10044130 | 3S-H-Vg-F1 |



[Accessories]

Ultra Elite Masks

- D2056751 Ultra Elite PS
- D2056789 Ultra Elite PS, small
- 10026552 Ultra Elite PS
with transponder
- D2056764 Ultra Elite PS Silicone
- D2056772 Ultra Elite PS-EZ
- D2056782 Ultra Elite PS-EZ, small
- 10045897 Ultra Elite-H-PS-F1
- 10045898 Ultra Elite-H-PS-F1, small



Ultra Elite H-PS-F1

Ultra Elite Masks

- D2056741 Ultra Elite PF
- D2056785 Ultra Elite PF, small
- D2056763 Ultra Elite PF Silicone
- D2056771 Ultra Elite PF-EZ
- D2056781 Ultra Elite PF-EZ, small
- 10045893 Ultra Elite-H-PF-F1
- 10045894 Ultra Elite-H-PF-F1, small



Ultra Elite PF

Ultra Elite Masks

- D2056700 Ultra Elite
- D2056779 Ultra Elite, small
- 10013876 Ultra Elite with transponder
- D2056718 Ultra Elite Silicone
- D2056770 Ultra Elite-EZ
- D2056780 Ultra Elite-EZ, small
- 10045891 Ultra Elite-H-F1
- 10045892 Ultra Elite-H-F1, small



Ultra Elite Silicone

Composite Cylinder

- D5103976 6 l/300 bar composite, empty
- D5103947 6 l/300 bar, charged
- D5103979 6.8 l/300 bar composite, empty
- D5103962 6.8 l/300 bar, charged
- 10055168 6.9 l/300 bar, empty
- 10055167 6.9 l/300 bar, charged



Composite Cylinder

Steel Cylinder

- D5103985 4 l/200 bar [not usable in connection with Quick-Fill Q], empty
- D5103965 4 l/200 bar, charged
- D5103986 6 l/300 bar, empty
- D5103967 6 l/300 bar, charged
- D5103987 6 l/300 bar super light, empty
- D5103968 6 l/300 bar super light, charged



Steel Cylinder

T-piece

- D4085817 T-piece 115/200 for two 4 l/200 bar compressed air cylinders
- D4075818 T-piece for two 300 bar composite cylinders



T-piece



Protective Cover

Protective Cover [for Composite Cylinders]

- D4075877 Protective cover, black
- D4075878 Protective cover, yellow

Carrying Case

- D4074341 Plastic carrying case for BD 96 with one steel or composite cylinder
- 10049021 Carrying case for SCBA incl. facemask, lung governed demand valve and one or two cylinders [up to 6.9 l]



BD 96 Carrying Case

Wall Box

- D4080801 Wall box type A for air cylinder 6 l/300 bar SCBA suspended on cylinder ready for use
- D4074994 Wall box type C accommodates all available cylinder sizes. SCBA suspended on carrying plate

D4075971 **Filling Connector Q**, Filling connector for Quick-Fill with pressure gauge and non-return valve, is screwed into valve of supply cylinder and permits quick charging of BD 96-Q apparatus

D4075929 **Filling line Q**, Filling line, 1 m, with 2 Quick-Fill couplings to connect the BD 96 with the supply connector. In handy carrying pouch

D4075720 **Rescue set in pouch**

D4075723 **Rescue set in carrier**

both rescue sets for all BD 96 with Second Connection [Z] contain a 3S-EZ mask and the lung governed demand valve LA 96-NR with a 150 cm medium pressure line. For rescuing persons in distress.

D4075963 **Chest strap**, [additional protection against slipping of the shoulder straps]

Full Face Masks

3S

3S – the most successful full face mask design in the world with over 5 millions units sold. Available as normal or positive pressure version. The upgraded version offers more user comfort, without changing the 3S classic style.

- Perfect facepiece-to-face fit
- Silicone or rubber faceblank
- Two sizes
- Rubber, Silicone or Nomex Easy-don harness
- Wide sealing edge and deep chin cup
- Easy to maintain

Please refer to our detailed leaflet ID 05-405.2



Ultra Elite

Ultra Elite – the innovative full face mask from MSA, developed according to the requirements of the user, with future-oriented design, exemplary ergonomics and state-of-the-art technology. Every detail fits the user's requirements optimally.

- Exemplary wearing comfort
- Silicone or rubber faceblank
- Rubber, silicone or Nomex Easy-don harness
- Almost natural, undistorted field of vision
- Excellent speech transmission
- Polycarbonate lens, coated with silicate on both sides
- TPE [thermoplastic elastomer] nose cup with small dead space, in two sizes

Please refer to our detailed leaflet ID 05-418.1

All Masks According to EN 136

Class 3, depending on type

- With standard thread according to EN 148-1
- With thread M 45 x 3 according to EN 148-3
- With MSA plug connector for LA 96-AS and LA 88-AS or AutoMaXX®-AS

Mask-Helmet-Combinations

For work with helmet-mask-combinations we offer Ultra Elite and 3S mask versions adapted for use with helmets.

Please refer to our detailed leaflet ID 05-432.1



3S H-PS-F1
[with MSA GALLET helmet]

MSA in Europe

Northern Europe

Regional Head Office

Netherlands

MSA Nederland B.V.

Kernweg 20

NL-1627 LH Hoorn

P. O. Box 39

NL-1620 AA Hoorn

Phone +31 [229] 25 03 03

Telefax +31 [229] 21 13 40

E-Mail info@msaned.nl

Belgium

MSA Belgium N.V.

Sterrenstraat 58/1

B-2500 Lier

Phone +32 [3] 491 91 50

Telefax +32 [3] 491 91 51

E-Mail msabelgium@msa.be

Great Britain

MSA [Britain] Limited

East Shawhead

Coatbridge ML5 4TD

Scotland

Phone +44 [12 36] 42 49 66

Telefax +44 [12 36] 44 08 81

E-Mail info@msabritain.co.uk

Sweden

MSA NORDIC

Kopparbergsgatan 29

SE-214 44 Malmö

Phone +46 [40] 699 07 70

Telefax +46 [40] 699 07 77

E-Mail info@msanordic.se

MSA SORDIN

Rörläggärvägen 8

SE-331 53 Värnamo

Phone +46 [370] 69 35 50

Telefax +46 [370] 69 35 55

E-Mail info@sordin.se

Southern Europe

Regional Head Office

Italy

MSA Italiana S.p.A.

Via Po 13/17

I-20089 Rozzano [MI]

Phone +39 [02] 89 217-1

Telefax +39 [02] 8 25 92 28

E-Mail info-italy@msa-europe.com

Spain

MSA Española, S.A.U.

Narcís Monturiol, 7

Pol. Ind. del Sudoeste

E-08960 Sant-Just Desvern

[Barcelona]

Phone +34 [93] 372 51 62

Telefax +34 [93] 372 66 57

E-Mail info@msa.es

France

MSA France & MSA GALLET

Zone Industrielle Sud

F-01400 Châtillon sur Chalaronne

MSA France

Phone +33 [474] 55 47 77

Telefax +33 [474] 55 47 99

E-Mail info@msa-france.fr

MSA GALLET

Phone +33 [474] 55 01 55

Telefax +33 [474] 55 24 80

E-Mail message@msa-gallet.fr

Central Europe

Regional Head Office

Germany

MSA AUER GmbH

Thiemannstrasse 1

D-12059 Berlin

Phone +49 [30] 68 86-555

Telefax +49 [30] 68 86-15 17

E-Mail info@auer.de

Austria

MSA AUER Austria

Vertriebs GmbH

Absberger Strasse 9

A-3462 Absdorf

Phone +43 [22 78] 31 11

Telefax +43 [22 78] 31 11-2

E-Mail msa-austria@auer.de

Switzerland

MSA AUER Schweiz

Unterdorfstrasse 21

CH-8602 Wangen

Phone +41 [43] 255 89 00

Telefax +41 [43] 255 99 90

E-Mail msa-schweiz@auer.de

European Head Office & International Sales

[Africa, Asia, Australia, Latin America, Middle East]

MSA Europe

Thiemannstrasse 1

D-12059 Berlin

Phone +49 [30] 68 86-555

Telefax +49 [30] 68 86-15 17

E-Mail contact@msa-europe.com

Eastern Europe

Regional Head Office

Germany

MSA AUER GmbH

Thiemannstrasse 1

D-12059 Berlin

Phone +49 [30] 68 86-25 99

Telefax +49 [30] 68 86-15 77

E-Mail mee@auer.de

Hungary

MSA AUER Hungaria

Biztonságtechnika Kft.

Francia út. 10

H-1143 Budapest

Phone +36 [1] 251 34 88

Telefax +36 [1] 251 46 51

E-Mail info@msa-auer.hu

Poland

MSA AUER Polska Sp. zo.o.

ul. Wschodnia 5A

PL-05-090 Raszyn

Phone +48 [22] 711 50 00

Telefax +48 [22] 711 50 19

E-Mail biuro@msa-auer.com.pl

Russia

MSA AUER Moscow

2 Leninsky Prospect

Office 14

RUS-117049 Moscow

Phone +7 [095] 239 15 72

Telefax +7 [095] 239 10 39

E-Mail msa-moscow@auer.de

www.msa-europe.com

Your direct contact:

┌

┐

└

┘

Subject to change without notice.
ID 01-100.1 GBL/5./N/11.04/HH

