

**trombone**

**stolo<sup>®</sup>li**

**horns**

HF 80/1



# HF 80 Series



| DESCRIPTION   | HF 80/1 340 Hz. / 430 Hz.  | HF 80/2                        |
|---|----------------------------|--------------------------------|
| <b>Part number</b>  | <b>11510021 / 11510011</b> | <b>11510001 (11510003 box)</b> |
| Nominal voltage   | 12 or 24 Volts             | 12 or 24 Volts                 |
| Absorbed current (at 24V)   | ≤4,5 A (≤2,5 A)            | ≤9 A (≤5 A)                    |
| Fundamental frequency   | 340 Hz ±5% / 430 Hz ±5%    | 340 and 430 Hz ±5%             |
| Sound pressure level measured at 2 meters from the source (at 4 inches) | ≥109 dB(A) (≥133 dB(A))    | ≥112 dB(A) (≥136 dB(A))        |
| Type of sound   | single tone                | two harmonized tones           |
| Dimensions  | Ø 80 mm                    | Ø 80 mmx2                      |
| <b>Homologated by CEE-ECE</b>   | <b>yes</b>                 | <b>yes</b>                     |
| N° hours of salt fog exposure   | 96                         | 96                             |
| Temperature resistance in function                                      | 25°C to 80°C               | 25°C to 80°C                   |
| Endurance test  | 50.000 on/off cycles       | 50.000 on/off cycles           |

HF 80/2



TM 80/2

# TM 80 Series



TM 80/1      TM 80/2L - 11452123      TM 80/2L C - 11452433      TM 80/2 C • - 11452423      TM 80/2 AC • - 11452443

| DESCRIPTION   | TM 80/1 high/low tone                       | TM 80/2                                     |
|---|---|---|
| <b>Part number</b>  | <b>11451122 / 11451222</b>                  | <b>11452124</b>                             |
| Nominal voltage   | 12 or 24 Volts                              | 12 or 24 Volts                              |
| Absorbed current (at 24V)   | ≤5,5 A (≤2,8 A)                             | ≤11 A (≤5,6 A)                              |
| Fundamental frequency   | 500/410 Hz ±5%                              | 500 and 410 Hz ±5%                          |
| Sound pressure level measured at 2 meters from the source (at 4 inches) | ≥109 dB(A) a 13 Volt (≥133 dB(A) a 13 Volt) | ≥112 dB(A) a 13 Volt (≥136 dB(A) a 13 Volt) |
| Type of sound   | single tone                                 | two harmonized tones                        |
| Dimensions  | Ø 82 mm                                     | Ø 82 mmx2                                   |
| <b>Electromagnetic compatibility</b>                                    | <b>yes</b>                                  | <b>yes</b>                                  |
| <b>Homologated by CEE-ECE</b>   | <b>yes</b>                                  | <b>yes</b>                                  |
| N° hours of salt fog exposure   | 96  | 96  |
| Temperature resistance in function                                      | 25°C to 80°C                                | 25°C to 80°C                                |
| Endurance test  | 50.000 on/off cycles                        | 50.000 on/off cycles                        |

- metallic plastic caps (chromed look).
- metallic plastic trumpet units and caps (chromed look).

# TM 80 Magnum Series



**+3dB(A)**

| DESCRIPTION   | TM 80/1 Magnum high tone / low tone | TM 80/2 Magnum                     |
|---|-------------------------------------|------------------------------------|
| <b>Part number</b>  | <b>11451127 / 11451128</b>          | <b>11452139 / 11452158</b>         |
| Nominal voltage   | 12 or 24 Vd ts                      | 12 or 24 Volts                     |
| Absorbed current (at 24V)   | ≤6 A (≤3 A)                         | ≤12 A (≤6 A)                       |
| Fundamental frequency   | 500 Hz ±5% / 410 Hz                 | 500 and 410 Hz ±5%                 |
| Sound pressure level measured at 2 meters from the source (at 4 inches) | ≥112 dB(A) (≥136 dB(A))             | ≥115 dB(A) (≥139 dB(A))            |
| Type of sound   | single tone                         | two harmonized tones               |
| Dimensions  | Ø 80 mm                             | Ø 80 mmx2                          |
| Trumpet material  | ABS or metallic ABS (chromed look)  | ABS or metallic ABS (chromed look) |
| <b>Electromagnetic compatibility</b>                                    | <b>yes</b>                          | <b>yes</b>                         |
| <b>Homologated by CEE-ECE</b>   | <b>yes</b>                          | <b>yes</b>                         |
| <b>Patented internationally</b>   | <b>yes</b>                          | <b>yes</b>                         |
| N° hours of salt fog exposure   | 96                                  | 96                                 |
| Temperature resistance in function                                      | 25°C to 80°C                        | 25°C to 80°C                       |
| Endurance test  | 50.000 on/off cycles                | 50.000 on/off cycles               |

- metallic plastic trumpet units

TM 80/2 Magnum - 11452139



TM 80/2 Chromed Magnum • - 11452158

**NAUTILUS RED**  
"URBAN COOL SOUND"  
11690003



**NAUTILUS™ COMPACT**  
"ROUGH AND TOUGH SOUND"  
11690019



## Nautilus Series



... the return to a classic sound with modern technology...



**BLACK**  
11690001

**CHROMED**  
11690006

**COMPACT RED**  
11690047

**COMPACT CHROMED**  
11690039

11690053



11690051



**NAUTILUS™ COMPACT TUNING**  
"WATER TIGHT" CHROMED/BLACK

### DESCRIPTION NAUTILUS/NAUTILUS COMPACT / TUNING

|   |                                       |
|---|---------------------------------------|
| Nominal voltage   | 12 or 24 Volts                        |
| Absorbed current (at 24V)   | ≤18 A (≤ 9A)                          |
| Fundamental frequency   | 530 and 680 Hz ±5%                    |
| Sound pressure level measured at 2 meters from the source (at 4 inches) | ≥115 dB(A) (≥139 dB(A))               |
| Type of sound   | harmonized twin tone                  |
| Electromagnetic compatibility   | yes                                   |
| Homologated by CEE-ECE  | yes                                   |
| Patented internationally  | yes                                   |
| Dimensions  | 150x112x95 mm (125x112x78 mm compact) |
| N° hours of salt fog exposure   | 96                                    |
| Temperature resistance in function                                      | 25°C to 80°C                          |
| Endurance test  | 50.000 on/off cycles                  |
| Sound reaction time   | ~ 90 msec.                            |

• metallic plastic trumpet unit

GP2



## GP Series



GP3

GPA2

GPA3

### DESCRIPTION

|   | GP2 / GPA2                 | GP3 / GPA3                 |
|---|----------------------------|----------------------------|
| <b>Part number</b>  | <b>11012121 / 11012164</b> | <b>11013121 / 11630021</b> |
| Nominal voltage   | 12 or 24 Volts             | 12 or 24 Volts             |
| Absorbed current (at 24V)                                   | ≤16 A (≤8 A)               | ≤16 A (≤8 A)               |
| Fundamental frequency                                       | 630 and 795 Hz ±5%         | 630, 795 and 840 Hz ±5%    |
| Sound pressure level (measured at 2 meters from the source) | ≥115 dB(A)                 | ≥115 dB(A)                 |
| Type of sound   | two harmonized tones       | three harmonized tones     |
| Electromagnetic compatibility                               | yes                        | yes                        |
| Homologated by CEE-ECE                                      | yes                        | yes                        |
| N° hours of salt fog exposure                               | 96                         | 96                         |
| Temperature resistance in function                          | 25°C to 80°C               | 25°C to 80°C               |
| Endurance test  | 50.000 on/off cycles       | 50.000 on/off cycles       |
| Sound reaction time   | ~ 120 msec.                | ~ 120 msec.                |

KP1

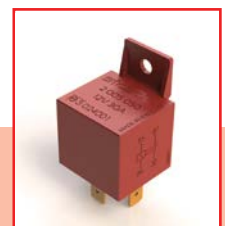


## KP Series SOS

## and Relays



1010016



2005011 relay 12 volt 30 A

### DESCRIPTION

|   | KP 1   |
|---|--|
| <b>Part number</b>  | <b>11101222</b>  |
| Fundamental frequency                                       | 520 Hz ±5%   |
| Sound pressure level (measured at 2 meters from the source) | ≥111 dB(A)   |
| Type of sound   | single tone  |
| Type of gas used  | 134 A pure - non flammable - approved by Montreal protocol |
| Actual weight in ml of bottle content                       | 300 ml / approx 6 minutes of sound power                   |

to insure "conformity" of the content, all Stebel® bottles clearly state the name of the producer

VM 2

# Medium/Heavy Series



TM2

AM 2

| DESCRIPTION   | TM2                  | VM 2                 | AM 2                  |
|---|----------------------|----------------------|-----------------------|
| <b>Part number</b>  | <b>11290008</b>      | <b>11290003</b>      | <b>11290009</b>       |
| Nominal voltage   | -                    | 12 or 24 Volts       | 12 or 24 Volts        |
| Absorbed current (at 24V)                                   | -                    | ≤18 A (≤9 A)         | ≤18 A (≤9 A)          |
| Fundamental frequency                                       | 392/435 Hz ±5%       | 392/435 Hz ±5%       | 349/440 Hz ±5%        |
| Sound pressure level (measured at 2 meters from the source) | ≥118 dB(A)           | ≥115 dB(A)           | ≥115 dB(A)            |
| Type of sound   | two harmonized tones | two harmonized tones | two alternating tones |
| Nominal pressure  | 5 bar to 12 bar      |                      |                       |
| <b>Electromagnetic compatibility</b>                        | <b>yes</b>           | <b>yes</b>           |                       |
| <b>Homologated</b>  |                      | <b>CEE /ECE</b>      | <b>"DGM" Italy</b>    |
| N° hours of salt fog exposure                               | 400 hours            | 400 hours            | 400 hours             |
| Temperature resistance in function                          | 25°C to 80°C         | 25°C to 80°C         | 25°C to 80°C          |
| Endurance test  |                      | 50.000 on/off cycles | 50.000 on/off cycles  |

- trumpet units in black ABS and chambers in black ABS, stainless steel membrane
- trumpet units in chromed ABS and chambers in black ABS, stainless steel membrane

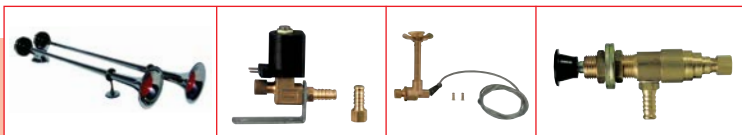
JUM2



JUM2 TWIN



# Heavy-Duty Series



TM2 L

ELECTRIC VALVE (E)

MANUAL VALVE (M)

PEDAL VALVE (P)

NAUTILUS™ TRUCK



| DESCRIPTION   | TM2 L                | JUM2 / JUM2 TWIN         | NAUTILUS TRUCK       |
|---|----------------------|--------------------------|----------------------|
| <b>Part number</b>  | <b>11290014</b>      | <b>152703 / 11290019</b> | <b>11690058</b>      |
| Sound pressure level (measured at 2 meters from the source) | ≥117 dB(A)           | ≥117 dB(A)               | ≥110 dB(A)           |
| Type of sound   | two harmonized tones | two harmonized tones     | single low tone      |
| Nominal pressure  | ≥5 bar ≤12 bar       | ≥5 bar ≤12 bar           |                      |
| Fundamental frequency                                       | 230 and 275 Hz ±5%   | 185±5% and 200±5%        | 300 Hz ±5%           |
| N° hours of salt fog exposure                               | 400 hours            | 400 hours                | 400 hours            |
| Temperature resistance in function                          |                      |                          | 25°C to 80°C         |
| Endurance test  |                      |                          | 50.000 on/off cycles |
| Sound reaction time   |                      |                          | ~ 90 msec.           |
| <b>Patented internationally</b>                             |                      |                          | <b>yes</b>           |
| <b>Electromagnetic compatibility</b>                        |                      |                          | <b>yes</b>           |
| Dimensions  | 535 mm               | 650 mm                   | 140x100x112h         |

- trumpet units in stainless polished steel and chambers in chromed zamak alloy, stainless steel membrane
- trumpet units in chromed brass, stainless steel membrane

NM 2

# Nautical Series



| DESCRIPTION  | NM 2                  |
|--|-----------------------|
| <b>Part number</b>   | <b>11290015</b>       |
| Nominal voltage  | 12 or 24 Volts        |
| Absorbed current (at 24V)                                  | ≤18 A (≤9 A)          |
| Fundamental frequency                                      | 275 and 310 Hz ±5%    |
| Sound pressure level (measured at 1 meter from the source) | ≥112 dB(A) a 13 Volts |
| Type of sound  | two harmonized tones  |
| <b>Electromagnetic compatibility</b>                       | <b>yes</b>            |
| N° hours of salt fog exposure                              | 400 hours             |

- trumpet units in chromed brass, membrane in stainless steel
- white marine style hi grade ABS cover cap + water tight rubber connection protector for other technical data look Nautilus Compact
- Technical data look VM2

the return to a classic sound with modern technology



NAUTILUS™ COMPACT TUNING MARINE "WATER TIGHT" 11690062



PRM V2 - IPG



# Emergency/Rail Series



Carabinieri - Police - Ambulances  
Fire fighters - Railway

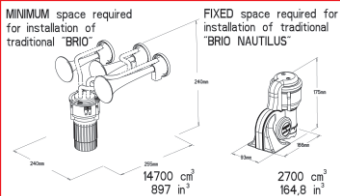


FM1

| DESCRIPTION   | PRM V2 - IPG          | PRM V2 - IAP          | PRM V2                | FM1             |
|---|-----------------------|-----------------------|-----------------------|-----------------|
| <b>Part number</b>  | <b>11212323</b>       | <b>11222323</b>       | <b>11232323</b>       | <b>11710001</b> |
| Nominal voltage   | 12 or 24 Volts        | 12 or 24 Volts        | 12 or 24 Volts        | 12 or 24 Volts  |
| Absorbed current (at 24V)                                   | ≤15 A (≤7,5 A)        | ≤15 A (≤7,5 A)        | ≤15 A (≤7,5 A)        | ≤18 A (≤9 A)    |
| Fundamental frequency                                       | 466 and 622 Hz ±5%    | 392 and 660 Hz ±5%    | 435 and 488 Hz ±5%    | 600 Hz ±5%      |
| Sound pressure level (measured at 2 meters from the source) | ≥115 dB(A)            | ≥115 dB(A)            | ≥115 dB(A)            | ≥118 dB(A)      |
| Type of sound   | two alternating tones | two alternating tones | two alternating tones | single tone     |
| Electromagnetic compatibility                               | yes                   | yes                   | yes                   | yes             |
| Trumpet material  | ABS                   | ABS                   | ABS                   | ABS             |
| <b>Patented</b>   | <b>yes *</b>          | <b>yes*</b>           | <b>yes*</b>           |                 |
| <b>Homologated</b>  | <b>"DGM" Italy</b>    | <b>"DGM" Italy</b>    |                       | <b>CEE/ECE</b>  |
| Duration of continuous use                                  | 1 hour                | 1 hour                | 1 hour                |                 |

\* Compressor is self-cooling thanks to a patented fan system which allows the horns to function continuously and features a self lubricating system with an incorporated oil tank.

BP3



## BP Series



BPA 3\*



BP3



NAUTILUS™ BRIO

| DESCRIPTION   | NAUTILUS BRIO                     | BP3 / BPA3*                           |
|---|-----------------------------------|---------------------------------------|
| <b>Part number</b>  | <b>14540025 / 14540024</b>        | <b>14540011 / 14550011</b>            |
| Nominal voltage   | 12 or 24 Volts                    | 12 or 24 Volts                        |
| Absorbed current (at 24V)                                   | ≤18 A (≤9 A)                      | ≤18 A (≤9 A)                          |
| Fundamental frequency                                       | 530 and 700 Hz ±5%                | 630, 795 and 840 Hz ±5%               |
| Sound pressure level (measured at 2 meters from the source) | ≥115 dB(A)                        | ≥115 dB(A)                            |
| Type of sound   | • alternating or harmonized tones | three alternating or harmonized tones |
| <b>Electromagnetic Compatibility</b>                        | <b>yes</b>                        | <b>yes</b>                            |
| <b>Patented internationally</b>                             | <b>yes</b>                        |                                       |
| N° hours of salt fog exposure                               | 96                                | 96                                    |
| Temperature resistance in function                          | 25°C to 80°C                      | 25°C to 80°C                          |
| Endurance test  | 50.000 on/off cycles              | 50.000 on/off cycles                  |
| Sound reaction time   | ~ 90 msec.                        | ~ 120 msec.                           |

\* metallic plastic trumpet units (chromed look).

...the return to a classic sound with modern technology...



• "LA DOLCE VITA" type sound  
• "BP3" type sound

MP5



## Musical Series



MPA5\*



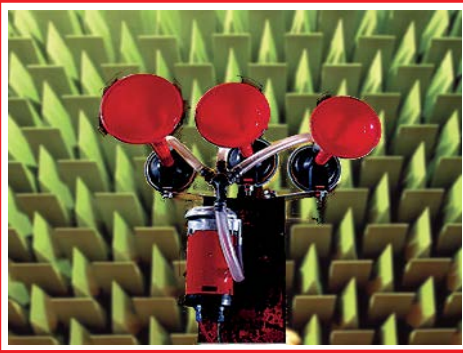
MP box

### PLASTIC TRUMPETS

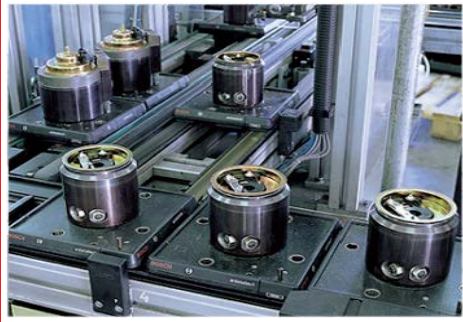
|          |                                 |          |                             |
|----------|---------------------------------|----------|-----------------------------|
| MP2 / FP | France Police*                  | MP5 / EP | Les Enfants du Pirée*       |
| MP3 / CA | Carica / The Cavalry charge*    | MP5 / RK | River Kway*                 |
| MP3 / CB | Cumbanchero                     | MP5 / SM | O sole mio*                 |
| MP4 / CP | Call to the post*               | MP5 / SS | Susanna*                    |
| MP4 / JB | Jingle Bells*                   | MP5 / PF | Perfidia                    |
| MP4 / MN | Marcia Nuziale / Wedding March* | MP6 / IP | Il Padrino / The godfather* |
| MP4 / SN | Strangers in the night*         | MP6 / SP | Sous les ponts de Paris*    |
| MP4 / TQ | Tequila                         | MP6 / ST | In the summer time*         |
| MP5 / CC | Cucaracha*                      | MP6 / AL | Alma Ilanera*               |
| MP5 / DX | Dixie*                          |          |                             |

\* available also with metallic plastic trumpet units

**ATTENTION! Part numbers indicated refer to 12 volt version only, and to heavy duty series without valves.**



The Stebel Company was founded in 1955 by Leonardo Beltrame. Stebel engineers and produces exclusively signal horns. This absolute specialization guarantees a deeper knowledge of market requirements. It has unequalled experience constantly reinforced by new technologies and innovative projects. A Certified Company System insures top quality at all levels. For over 50 years we have made every effort to offer our customers beautiful, innovative, easy to install, long-lasting and reliable products. We strive to guarantee high performance on every single product.



A design tuned with your needs. Motorcycles, cars, heavy-duty vehicles, and sea vessels: maximum design flexibility to harmonize each product with your specific requirement. A rich heritage of research and a high level of professionalism enable our technical experts to envision new projects and execute them accurately with the support of cutting edge computer technology. The experimental laboratory: quality of the highest tone. A climate simulation chamber and well-equipped lab insure the high quality of each single horn unit from its origin.



Testing allows for product and component verification down to the smallest detail in order to respect homologation standards issued by government legislation and the automotive manufacturers themselves. Production and verification tests: a sweet harmony. Fully automated production systems hand in hand with rigorous testing: a perfect combination used to offer product reliability, resistance, and safety according to standards, which are both objective and reproducible.

## WHY CHOOSE A STEBEL HORN

Are you thinking about mounting an external horn and think that therefore it must have a beautiful design and well refined details?

Do you think that besides "being loud", a horn should have a pleasant sound pitch?

Do you want to choose a horn better suited for the use you want to make of it, and count on a modern product in line with the times?

Do you want to make sure that the product you buy respects norms and regulations?

Do you want to avoid being disappointed with the technical characteristics declared by the manufacturer and be forced to substitute the product which you just recently purchased?

Do you want to count on a sure warranty policy of the product you buy and/or be guided with the most correct mode of installation of the product you have decided to purchase?

Do you think a horn should withstand extreme weather conditions and use and therefore never leave you in silence?

Do you believe that a horn is also a safety instrument engineered to help prevent accidents?

Since 1955 Stebel designs and produces only horns to please anyone who has these requirements.

## TRULY ITALIAN PERFECTION

## BEWARE OF IMITATIONS

To receive further technical information (Electrical connection scheme and installation tips, Product warranty terms, Packaging measurements, Hi-fidelity sound recordings product description text news, Trade-fair participation, company description etc) and more detailed images of the products, visit our website: [www.stebel.it](http://www.stebel.it)

**Important Notice:** We strongly advise the consumer to follow in detail the suggestions and requirements of installation in order to insure the correct function and performance of the product.

The illustrations and descriptions on this information sheet are for indicative purposes only. At any moment and without warning, Stebel reserves the right to replace or modify the models hereby shown in order to improve quality or meet particular production/commercial requirements. We kindly ask our customers to indicate the precise Stebel product code when placing orders.

# stebel®

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