

# Feel The Power of Quality...



**MTM**  
**MOTOMAR COMPANY**

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## SPECIAL TREATMENT OF VALVES

### Cr- Chromium Plated Valve Stems

Valve stems are hard chrome plated to increase the wear resistance and also the corrosion resistance of the stem.

### Ph- Phosphated Valves

Phosphating is used to increase the corrosion resistance of valve and to improve oiling capability of the stem.

### Ni- Soft Nitrided Valves

Valves are nitrided to increase the fatigue strength, corrosion resistance and wear resistance.

### Na- Sodium Cooled Valves

The cooling effect of sodium will lower the temperature of the valve head for engines operating under severe conditions or long periods at high speeds. Consequently, the possibility of cracks, corrosion and distortion is considerably reduced.

### St- Stellite Valves

To increase wear and corrosion resistance of valve seats and stem end for especially exhaust valves, a hard facing is applied on the valve seat and stem end.

### Y- Induction Hardened Valve Seats

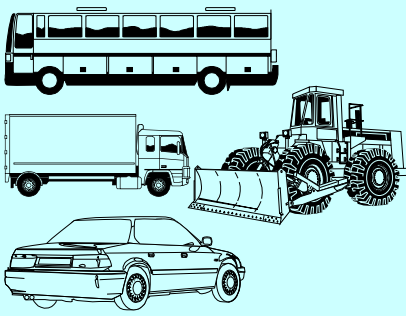
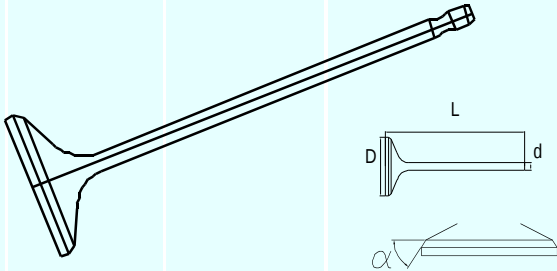
To increase wear resistance of valve seats for especially inlet valves. Induction hardening is applied on the valve seat.

### S/A- Bi-metallic Valves

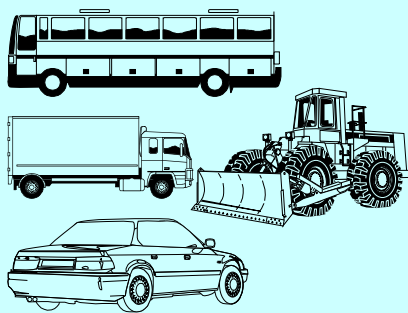
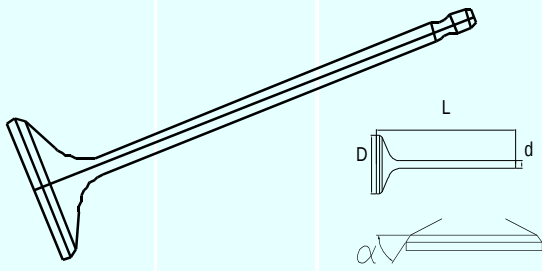
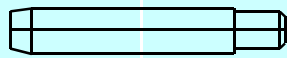
The bi-metallic valve has the head made from a high temperature and corrosion resistant steel (austenitic steel), and the stem made from a good mechanical properties steel (martensitic steel).

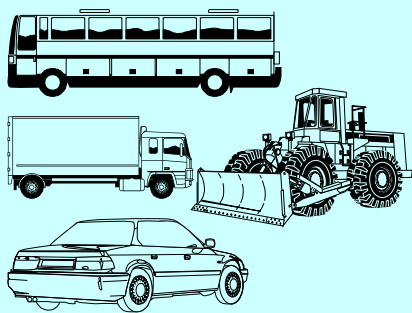
## VALVE STEELS USED IN OUR PRODUCTION

| Symbol                                                                     | S         | A             | O           | R               | A 5           | Nb                         |
|----------------------------------------------------------------------------|-----------|---------------|-------------|-----------------|---------------|----------------------------|
| W.Nr.                                                                      | 1.4718    | 1.4871        | 1.4748      | 1.4785          | 1.4875        | 1.4871+Nb                  |
| DIN                                                                        | X45CrSi93 | X53CrMnNiN219 | X85CrMoV182 | 60CrMnMoVNB21.1 | X55CrMnNiN208 | (Z55CMN N6 21-09)<br>AFNOR |
| Analysis %                                                                 |           |               |             |                 |               |                            |
| C                                                                          | 0.45      | 0.53          | 0.85        | 0.60            | 0.55          | 0.54                       |
| Cr                                                                         | 9.0       | 21.0          | 18.0        | 21.0            | 20.5          | 21.0                       |
| Ni                                                                         | 0.5       | 4.0           | ---         | 4.0             | 2.0           | 4.0                        |
| Si                                                                         | 3.0       | 0.25          | 1.0         | 0.25            | 0.30          | 0.20                       |
| Mn                                                                         | ---       | 9.0           | 1.5         | 10.0            | 8.0           | 9.0                        |
| Mo                                                                         | ---       | ---           | 2.0         | ---             | ---           | ---                        |
| V                                                                          | ---       | ---           | 0.5         | 1.2             | ---           | ---                        |
| N                                                                          | 0.45      | ---           | ---         | 0.5             | 0.30          | 0.45                       |
| Nb                                                                         | ---       | ---           | ---         | 2.2             | ---           | 2.0                        |
| S                                                                          | 0.03      | 0.025         | 0.03        | 0.025           | 0.025         | 0.025                      |
| Tensile Strength (N/mm <sup>2</sup> )                                      |           |               |             |                 |               |                            |
| 20 °C                                                                      | 1000      | 1100          | 1100        | 1150            | 1050          | 1100                       |
| 800 °C                                                                     | 70        | 300           | 100         | 400             | 290           | 300                        |
| Hardness (HRC)                                                             |           |               |             |                 |               |                            |
|                                                                            | 30        | 38            | 32          | 34              | 32            | 41                         |
| Magnetizable                                                               |           |               |             |                 |               |                            |
|                                                                            | Yes       | No            | Yes         | No              | No            | No                         |
| Thermal Expansion Coefficient 10 <sup>-6</sup> K <sup>-1</sup> 20 - 700 °C |           |               |             |                 |               |                            |
|                                                                            | 14        | 18.4          | 11.9        | 19              | 18.4          | 20.0                       |

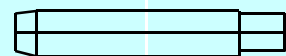
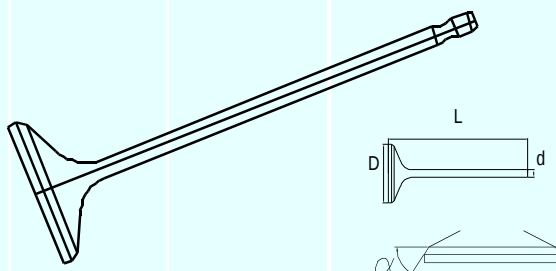
|                |      |          | <h1>MOTOMAR</h1>                      |            |                                                                                     |  |             |            |
|------------------------------------------------------------------------------------------------|------|----------|---------------------------------------|------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------|------------|
| CATERPILLAR                                                                                    | Cyl. | IN<br>EX | Original No                           | Motomar No | D x d x L                                                                           | $\alpha$                                                                           | Original No | Motomar No |
| <b>Motor :</b><br>3304, 3306<br><br><b>Vehicle :</b><br>955 K, 930, 977,<br>D4, D4D, D6C, D7F, | 4/6  | IN       | 5S 6452                               | V 3010 10  | 51.3 x 9.5 x 140                                                                    | 30                                                                                 | 2P 1262     | G 3010 10  |
|                                                                                                |      | EX       | 8N 0875                               | V 3010 20  | 48.2 x 9.5 x 139.5                                                                  | 30                                                                                 | 2P 1262     | G 3010 10  |
|                                                                                                |      |          |                                       |            |    |                                                                                    |             |            |
| <b>Motor :</b><br>3208<br><br><b>Vehicle :</b>                                                 | 6    | IN       | 9L 7682                               | V 3020 10  | 53.2 x 9.5 x 144.7                                                                  | 30                                                                                 | 6I 2864     | G 3020 10  |
|                                                                                                |      | EX       | 9L 7683<br>9N 5125                    | V 3020 20  | 45.8 x 9.5 x 144.3                                                                  | 45                                                                                 | 6I 2865     | G 3020 20  |
|                                                                                                |      |          |                                       |            |  |                                                                                    |             |            |
| <b>Motor :</b><br>3304, 3306<br><br><b>Vehicle :</b><br>D9, D379                               | 4/6  | IN       | 6N 9915<br>2W 2620<br><b>100 7860</b> | V 3030 10  | 51.2 x 9.5 x 136.5                                                                  | 30                                                                                 | 2P 1262     | G 3010 10  |
|                                                                                                |      | EX       | 6N 9916<br>100 7861<br>148 7455       | V 3030 20  | 48.2 x 9.5 x 135                                                                    | 30                                                                                 | 2P 1262     | G 3010 10  |
|                                                                                                |      |          |                                       |            |  |                                                                                    |             |            |
| <b>Motor :</b><br>3406, 3408<br><br><b>Vehicle :</b><br>D8 L                                   | 6/8  | IN       | 2W 2622<br>115 2368                   | V 3040 10  | 45.1 x 9.5 x 181.4                                                                  | 30                                                                                 | 4N 2803     | G 3040 10  |
|                                                                                                |      | EX       | 1W 3860<br>115 2367                   | V 3040 20  | 41.8 x 9.5 x 181.4                                                                  | 45                                                                                 | 4N 2803     | G 3040 10  |
|                                                                                                |      |          |                                       |            |  |                                                                                    |             |            |

The original part numbers of the vehicle manufacturers are for comparison purposes only.

|          |      |          | <h1>MOTOMAR</h1>                                                                   |            |                     |          |                                                                                     |            |
|------------------------------------------------------------------------------------------|------|----------|------------------------------------------------------------------------------------|------------|---------------------|----------|-------------------------------------------------------------------------------------|------------|
|                                                                                          |      |          |  |            |                     |          |  |            |
| CATERPILLAR                                                                              | Cyl. | IN<br>EX | Original No                                                                        | Motomar No | D x d x L           | $\alpha$ | Original No                                                                         | Motomar No |
| <b>Motor :</b><br><br><b>Vehicle :</b><br>988, 620, 631, 641, 650,                       | 6    | IN       | 1P 0407<br>1N 4885                                                                 | V 3050 10  | 45.1 x 9.5 x 152.3  | 45       | 4N 2236                                                                             | G 3050 10  |
|                                                                                          |      | EX       | 8N 3725<br>7E 7830                                                                 | V 3050 20  | 41.8 x 9.5 x 152.3  | 45       | 4N 2236                                                                             | G 3050 10  |
| <b>Motor :</b><br><br><b>Vehicle :</b><br>D8 K, D342, D364, D376                         | 6    | IN       | 8H 1993                                                                            | V 3060 10  | 59.5 x 12.6 x 236.2 | 45       | 7N 2051                                                                             | G 3060 10  |
|                                                                                          |      | EX       | 8H 1994                                                                            | V 3060 20  | 58.5 x 12.6 x 235.3 | 45       | 7N 2051                                                                             | G 3060 10  |
| <b>Motor :</b><br><br><b>Vehicle :</b><br>D9, D379                                       | 6    | IN       | 7M 7817                                                                            | V 3070 10  | 63.5 x 12.6 x 238   | 30       | 7S 6322                                                                             | G 3070 10  |
|                                                                                          |      | EX       | 8N 3723                                                                            | V 3070 20  | 60 x 12.6 x 238     | 30       | 7S 6366                                                                             | G 3070 20  |
| <b>Motor :</b><br><br><b>Vehicle :</b><br>955 H, 977, 944<br>D 333                       | 4    | IN       | 7M 7358                                                                            | V 3080 10  | 48 x 9.5 x 166.5    | 30       | 2M 6662                                                                             | G 3080 10  |
|                                                                                          |      | EX       | 9M 4163                                                                            | V 3080 20  | 45 x 9.5 x 166.5    | 30       | 2M 6662                                                                             | G 3080 10  |
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# MOTOMAR



## CUMMINS

| Cyl. | IN<br>EX | Original No | Motomar No | D x d x L | $\alpha$ | Original No | Motomar No |
|------|----------|-------------|------------|-----------|----------|-------------|------------|
|------|----------|-------------|------------|-----------|----------|-------------|------------|

**Motor :**  
NH 220

4/6  
12

IN

150288

V 3510 10

44.5 x 10.2 x 179.4 30

66890  
G-51419

G 3510 10

**Vehicle :**

EX

144911

V 3510 20

44.5 x 10.2 x 179.4 30

66890  
G-51419

G 3510 10



**Motor :**  
NT 250

6

IN

135957

V 3520 10

47.5 x 11.5 x 179.5 30

6170-11-1331  
147967

G 3520 10

**Vehicle :**

EX

145701

V 3520 20

47.5 x 11.5 x 179.5 30

6170-11-1331  
147967

G 3520 10



**Motor :**  
KT 270

6  
12

IN

207241

V 3530 10

56.4 x 12.6 x 191.8 30

G 3530 10

**Vehicle :**

EX

3035110

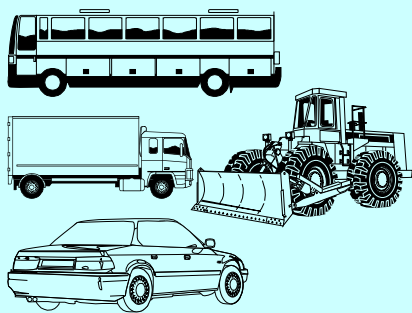
V 3530 20

56.4 x 12.6 x 191.8 30

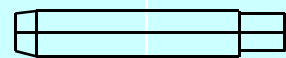
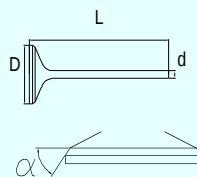
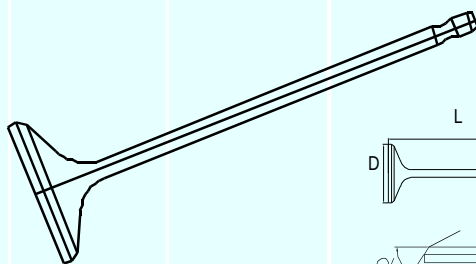
G 3530 10



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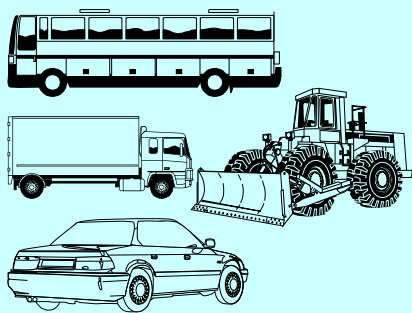


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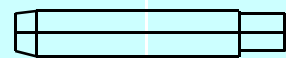
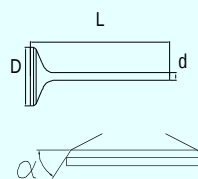
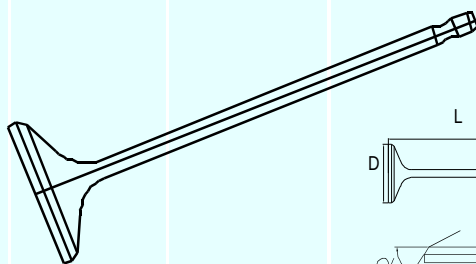


| DAF                                                                | Cyl. | IN<br>EX | Original No      | Motomar No | D x d x L          | $\alpha$ | Original No | Motomar No |
|--------------------------------------------------------------------|------|----------|------------------|------------|--------------------|----------|-------------|------------|
| <b>Motor :</b><br>DKL 1160<br><br><b>Vehicle :</b><br>2800         | 6    | IN       | 242253           | V 4010 10  | 56.7 x 11 x 151.9  | 30       | 236534      | G 4010 10  |
|                                                                    |      | EX       | 242199           | V 4010 20  | 49.3 x 11 x 150.1  | 30       | 236534      | G 4010 10  |
| <b>Motor :</b><br>DKL 1160<br><br><b>Vehicle :</b><br>3300         | 6    | IN       | 267356<br>266027 | V 4020 10  | 55 x 11 x 152.2    | 30       | 236534      | G 4010 10  |
|                                                                    |      | EX       | 267357<br>266028 | V 4020 20  | 47.7 x 11 x 150.1  | 30       | 236534      | G 4010 10  |
| <b>Motor :</b><br>DKL 1160 T<br><br><b>Vehicle :</b><br>3305, 3625 | 6    | IN       | 266305           | V 4030 10  | 54.9 x 10.98 x 175 | 30       |             | G 4030 10  |
|                                                                    |      | EX       | 266306           | V 4030 20  | 49.9 x 10.96 x 175 | 30       |             | G 4030 10  |

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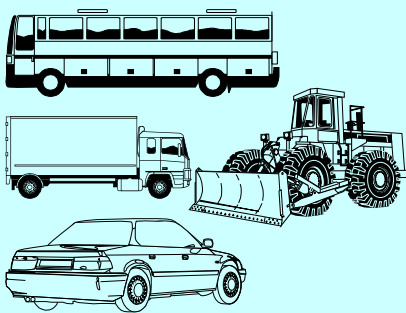
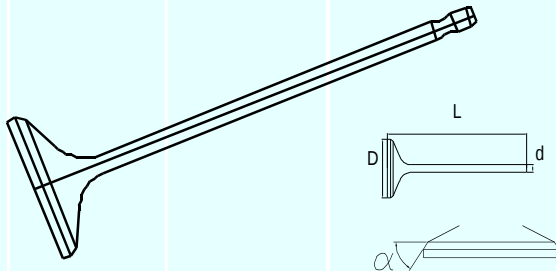
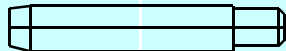


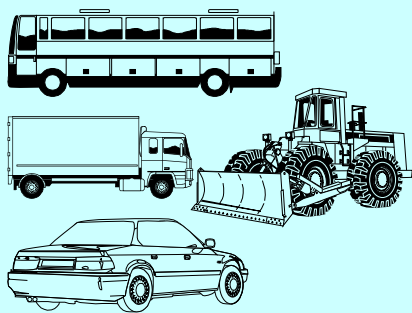
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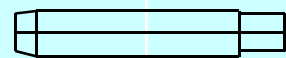
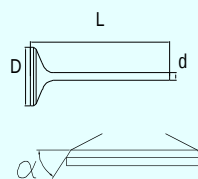
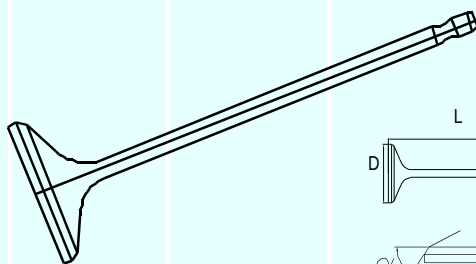
| DAF                                                            | Cyl. | IN<br>EX | Original No | Motomar No | D x d x L         | α  | Original No | Motomar No |
|----------------------------------------------------------------|------|----------|-------------|------------|-------------------|----|-------------|------------|
| <b>Motor :</b><br>DH 575<br><br><b>Vehicle :</b><br>1600, 1608 | 6    | IN       | 211260      | V 4040 10  | 42 x 8.7 x 141    | 30 | 210279      | G 4040 10  |
|                                                                |      | EX       | 517472      | V 4040 20  | 39.3 x 8.6 x 141  | 30 | 210279      | G 4040 10  |
| <b>Motor :</b><br>DH 825<br><br><b>Vehicle :</b><br>2200, 2300 | 6    | IN       | 674830      | V 4050 10  | 51.4 x 10 x 148.7 | 30 | 240472      | G 4050 10  |
|                                                                |      | EX       | 674829      | V 4050 20  | 42.8 x 10 x 148.5 | 30 | 240472      | G 4050 10  |

The original part numbers of the vehicle manufacturers are for comparison purposes only.

|          |          |          | <h1>MOTOMAR</h1>                                                                   |            |                  |          |                                                                                     |            |
|------------------------------------------------------------------------------------------|----------|----------|------------------------------------------------------------------------------------|------------|------------------|----------|-------------------------------------------------------------------------------------|------------|
|                                                                                          |          |          |  |            |                  |          |  |            |
| DEUTZ - KHD                                                                              | Cyl.     | IN<br>EX | Original No                                                                        | Motomar No | D x d x L        | $\alpha$ | Original No                                                                         | Motomar No |
| <b>Motor :</b><br>F2L 1011<br>F4L 1011<br><br><b>Vehicle :</b>                           | 2/3<br>4 | IN       | 417 0898                                                                           | V 4510 10  | 40.1 x 8 x 124.7 | 45       |                                                                                     | G 4510 10  |
|                                                                                          |          | EX       | 417 0899                                                                           | V 4510 20  | 34.9 x 8 x 124.7 | 45       |                                                                                     | G 4510 20  |
| <b>Motor :</b><br>BF4L 1011<br>Turbocharged<br><br><b>Vehicle :</b>                      | 4        | IN       | 417 0491                                                                           | V 4520 10  | 40.5 x 8 x 124.9 | 30       |                                                                                     | G 4520 10  |
|                                                                                          |          | EX       | 417 0899                                                                           | V 4520 20  | 34.9 x 8 x 124.7 | 45       |                                                                                     | G 4520 20  |
| <b>Motor :</b><br>BF4M 1012<br><br><b>Vehicle :</b>                                      | 4/6      | IN       | 420 8095                                                                           | V 4530 10  | 41.7 x 8 x 124.7 | 30       |                                                                                     | G 4530 10  |
|                                                                                          |          | EX       | 420 8096                                                                           | V 4530 20  | 35.9 x 8 x 124.7 | 45       |                                                                                     | G 4530 20  |
| <b>Motor :</b><br>912 D<br><br><b>Vehicle :</b>                                          | 2/4<br>6 | IN       | 415 3773                                                                           | V 4540 10  | 43 x 8 x 133     | 45       | 223 2528                                                                            | G 4540 10  |
|                                                                                          |          | EX       | 415 3696                                                                           | V 4540 20  | 37 x 8 x 133     | 45       | 223 2528                                                                            | G 4540 10  |
| The original part numbers of the vehicle manufacturers are for comparison purposes only. |          |          |                                                                                    |            |                  |          |                                                                                     |            |

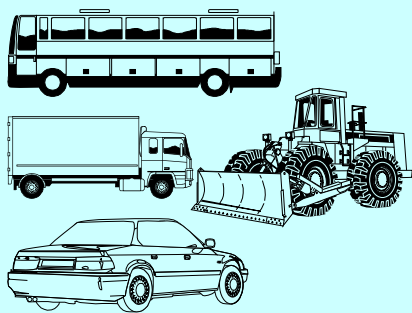


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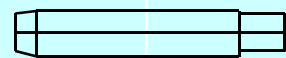
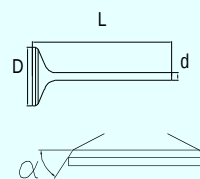
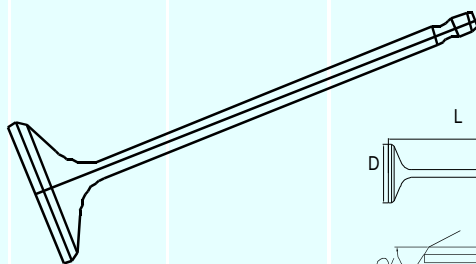


| DEUTZ - KHD                                                | Cyl.            | IN<br>EX | Original No | Motomar No | D x d x L                                                                                                 | $\alpha$ | Original No | Motomar No |
|------------------------------------------------------------|-----------------|----------|-------------|------------|-----------------------------------------------------------------------------------------------------------|----------|-------------|------------|
| <b>Motor :</b><br>913 D<br><br><b>Vehicle :</b>            | 3/4<br>6        | IN       | 415 9136    | V 4550 10  | 43 x 8 x 133                                                                                              | 45       | 223 2528    | G 4550 10  |
|                                                            |                 | EX       | 415 9139    | V 4550 20  | 37 x 8 x 133<br>        | 45       | 223 2528    | G 4550 10  |
| <b>Motor :</b><br>413<br><br><b>Vehicle :</b>              | 6/8<br>10<br>12 | IN       | 414 6226    | V 4560 10  | 53.6 x 10 x 165                                                                                           | 45       | 214 8102    | G 4560 10  |
|                                                            |                 | EX       | 241 2165    | V 4560 20  | 46.6 x 10 x 165.3<br>  | 45       | 214 8102    | G 4560 10  |
| <b>Motor :</b><br>FW 413<br>6L 513<br><br><b>Vehicle :</b> | 6/8<br>10<br>12 | IN       | 418 5463    | V 4570 10  | 53.6 x 10 x 165.8                                                                                         | 30       |             | G 4570 10  |
|                                                            |                 | EX       | 418 5461    | V 4570 20  | 46.6 x 10 x 165.3<br> | 45       |             | G 4570 20  |

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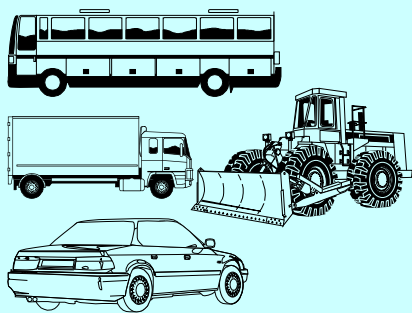


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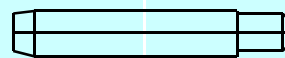
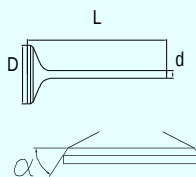
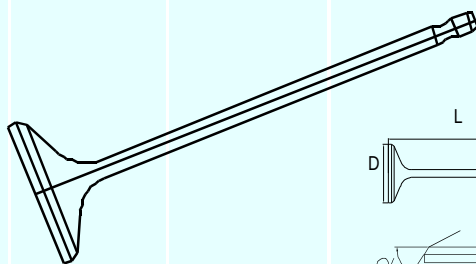


| FIAT - IVECO                                                                      | Cyl. | IN<br>EX | Original No | Motomar No | D x d x L        | $\alpha$ | Original No | Motomar No |
|-----------------------------------------------------------------------------------|------|----------|-------------|------------|------------------|----------|-------------|------------|
| <b>Motor :</b><br>8340.04<br>8360.04<br><br><b>Vehicle :</b><br>FL 10, FR 15      | 4/ 6 | IN       | 882 4754    | V 5010 10  | 48.4 x 8 x 137.8 | 45       | 475 8795    | G 5010 10  |
|                                                                                   |      | EX       | 883 0045    | V 5010 20  | 40.8 x 8 x 137.5 | 45       |             |            |
|                                                                                   | 6    | IN       | 468 4088    | V 5020 10  | 50 x 10 x 160.9  | 45       | 464 7838    | G 5020 10  |
|                                                                                   |      | EX       | 468 4089    | V 5020 20  | 45 x 10 x 160.9  | 45       |             |            |
| <b>Motor :</b><br>8260, 8280<br><br><b>Vehicle :</b><br>190 NC, F35,<br>170 NC/NT | 8    | IN       | 477 6446    | V 5030 10  | 51 x 10 x 156.5  | 30       | 467 2515    | G 5030 10  |
|                                                                                   |      | EX       | 470 4215    | V 5030 20  | 45 x 10 x 156.6  | 45       |             |            |

The original part numbers of the vehicle manufacturers are for comparison purposes only.



# MOTOMAR



## FIAT - IVECO

| Cyl. | IN<br>EX | Original No | Motomar No | D x d x L | α | Original No | Motomar No |
|------|----------|-------------|------------|-----------|---|-------------|------------|
|------|----------|-------------|------------|-----------|---|-------------|------------|

**Motor :**  
8210.02

6

IN

468 3025

V 5040 10

58.9 x 11 x 169.9

45

463 0627

G 5040 10

**Vehicle :**  
697

EX

468 3026

V 5040 20

48.9 x 11 x 169.9

45

464 7763

G 5040 20



**Motor :**  
8210.22

6

IN

467 3862

V 5050 10

57.5 x 11 x 169.9

30

463 0927

G 5050 10

**Vehicle :**  
190

EX

467 3861

V 5050 20

48 x 11 x 169.9

45

464 8237

G 5020 20



**Motor :**  
8030, 8040  
8060

6

IN

465 9379

V 5060 10

43.9 x 8 x 125.8

45

480 2126

G 5060 10

**Vehicle :**  
450, 480, 640  
780

EX

467 3608

V 5060 20

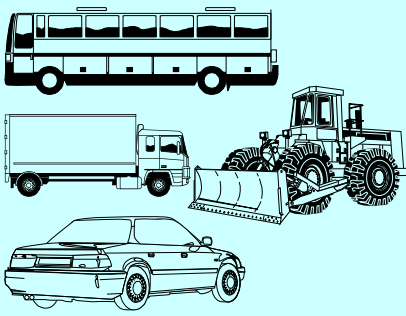
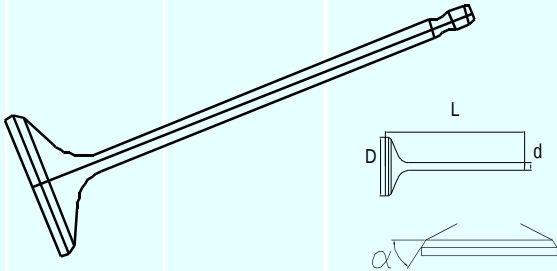
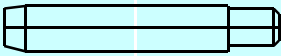
36.9 x 8 x 125.8

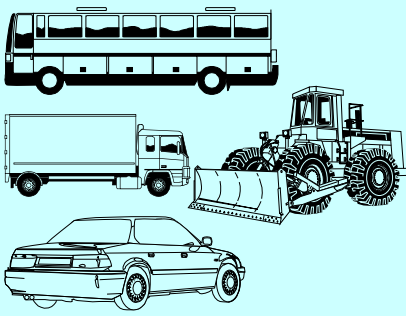
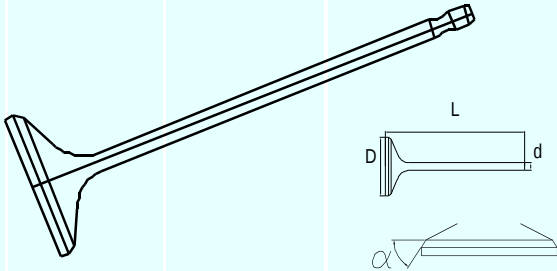
45

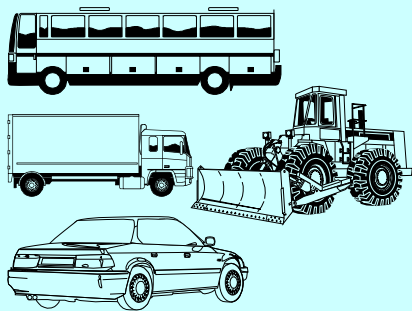
G 5060 20



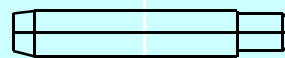
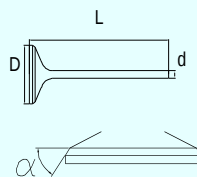
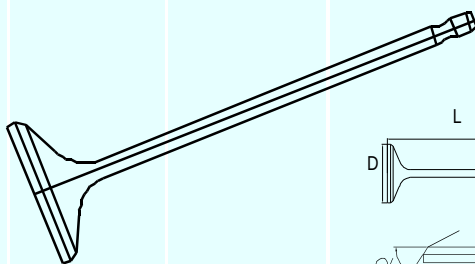
The original part numbers of the vehicle manufacturers are for comparison purposes only.

|          |      |          | MOTOMAR      |            |                                                                                                        |  |              |  |
|------------------------------------------------------------------------------------------|------|----------|--------------|------------|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|
| KOMATSU                                                                                  | Cyl. | IN<br>EX | Original No  | Motomar No | D x d x L                                                                                              | $\alpha$                                                                           | Original No  | Motomar No                                                                          |
| <b>Motor :</b><br>4D 95                                                                  | 4/6  | IN       | 6207-41-4110 | V 5510 10  | 44 x 8 x 128                                                                                           | 30                                                                                 | 6204-19-1310 | G 5510 10                                                                           |
| <b>Vehicle :</b>                                                                         |      | EX       | 6204-41-4210 | V 5510 20  | 44 x 8 x 128<br>      | 45                                                                                 | 6204-19-1310 | G 5510 10                                                                           |
| <b>Motor :</b><br>SAD 95L                                                                | 6    | IN       | 6209-41-4110 | V 5520 10  | 44 x 8 x 128                                                                                           | 30                                                                                 | 6204-19-1310 | G 5510 10                                                                           |
| <b>Vehicle :</b>                                                                         |      | EX       | 6209-41-4210 | V 5520 20  | 38 x 8 x 128<br>    | 45                                                                                 | 6204-19-1310 | G 5510 10                                                                           |
| <b>Motor :</b><br>4D 165                                                                 | 4    | IN       | 6136-42-4110 | V 5530 10  | 47 x 9 x 148.5                                                                                         | 30                                                                                 | 6136-19-1330 | G 5530 10                                                                           |
| <b>Vehicle :</b><br>W 90                                                                 |      | EX       | 6136-42-4210 | V 5530 20  | 41 x 9 x 148.5<br>  | 45                                                                                 | 6136-19-1330 | G 5530 10                                                                           |
| <b>Motor :</b><br>6D 105                                                                 | 6    | IN       | 6136-41-4110 | V 5540 10  | 46 x 10 x 145.5<br> | 30                                                                                 | 6136-19-1430 | G 5540 10                                                                           |
| <b>Vehicle :</b><br>W 120                                                                |      | EX       | 6136-41-4210 | V 5540 20  | 40 x 10 x 145.5<br> | 45                                                                                 | 6136-19-1430 | G 5540 10                                                                           |
| The original part numbers of the vehicle manufacturers are for comparison purposes only. |      |          |              |            |                                                                                                        |                                                                                    |              |                                                                                     |

|          |      |          | <h1>MOTOMAR</h1> |            |                     |  |              |            |
|------------------------------------------------------------------------------------------|------|----------|------------------|------------|---------------------|------------------------------------------------------------------------------------|--------------|------------|
| KOMATSU                                                                                  | Cyl. | IN<br>EX | Original No      | Motomar No | D x d x L           | α                                                                                  | Original No  | Motomar No |
| <b>Motor :</b><br>S6D 105/110/108<br><br><b>Vehicle :</b><br>GD 655, W 320, W 420        | 6    | IN       | 6138-42-4110     | V 5550 10  | 47 x 9 x 148.5      | 30                                                                                 | 6136-19-1330 | G 5530 10  |
|                                                                                          |      | EX       | 6138-42-4110     | V 5550 20  | 41 x 9 x 148.5      | 45                                                                                 | 6136-19-1330 | G 5530 10  |
| <b>Motor :</b><br>SAD 110<br><br><b>Vehicle :</b>                                        | 6    | IN       | 6221-41-4110     | V 5560 10  | 50 x 9 x 148.5      | 30                                                                                 | 6221-19-1311 | G 5560 10  |
|                                                                                          |      | EX       | 4222-41-4210     | V 5560 20  | 44 x 9 x 148.5      | 45                                                                                 | 6221-19-1311 | G 5560 10  |
| <b>Motor :</b><br>6D 125<br><br><b>Vehicle :</b><br>W 470                                | 6    | IN       | 6150-41-4111     | V 5570 10  | 45 x 9 x 169.5      | 30                                                                                 | 6150-12-1341 | G 5570 10  |
|                                                                                          |      | EX       | 6150-41-4210     | V 5570 20  | 44 x 9 x 169.5      | 45                                                                                 | 6150-12-1351 | G 5570 20  |
| <b>Motor :</b><br>6D 130<br><br><b>Vehicle :</b>                                         | 6    | IN       | 6610-41-4110     | V 5580 10  | 44.2 x 10.2 x 179.3 | 30                                                                                 | 6610-11-1310 | G 5580 10  |
|                                                                                          |      | EX       | 6610-41-4210     | V 5580 20  | 44.2 x 10.2 x 179.5 | 30                                                                                 | 6610-11-1310 | G 5580 10  |
| The original part numbers of the vehicle manufacturers are for comparison purposes only. |      |          |                  |            |                     |                                                                                    |              |            |



# MOTOMAR



## KOMATSU

| Cyl. | IN<br>EX | Original No | Motomar No | D x d x L | α | Original No | Motomar No |
|------|----------|-------------|------------|-----------|---|-------------|------------|
|------|----------|-------------|------------|-----------|---|-------------|------------|

**Motor :**  
6D 140

6

IN

**6215-41-4110**

V 5590 10

52 x 10 x 169.3

30

**6215-11-1330**

G 5590 10

**Vehicle :**

EX

**6215-45-4250**

V 5590 20

50 x 10 x 169.3

45

**6215-11-1330**

G 5590 10



**Motor :**  
S6D 155

6  
12

IN

**6127-41-4113**

V 5600 10

56 x 11 x 212.5

30

**6127-11-1341**

G 5600 10

**Vehicle :**

EX

**6127-41-4214**

V 5600 20

53 x 11 x 212.5

45

**6127-11-1341**

G 5600 10



**Motor :**  
SD 170

6

IN

**6162-43-4110**

V 5610 10

57 x 12 x 196.3

30

G 5610 10

**Vehicle :**

EX

**6164-41-4210**

V 5610 20

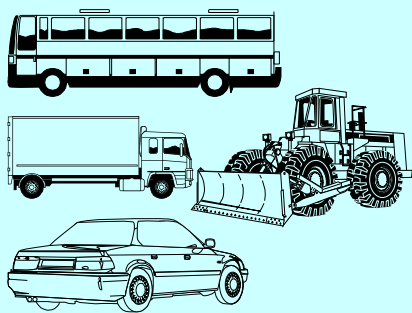
56 x 12 x 196.5

45

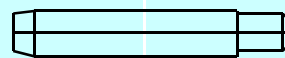
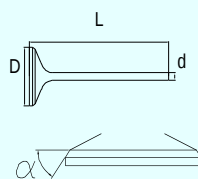
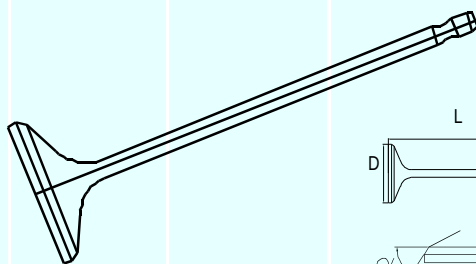
G 5610 10



The original part numbers of the vehicle manufacturers are for comparison purposes only.



# MOTOMAR



## MACK

| Cyl. | IN<br>EX | Original No | Motomar No | D x d x L | $\alpha$ | Original No | Motomar No |
|------|----------|-------------|------------|-----------|----------|-------------|------------|
|------|----------|-------------|------------|-----------|----------|-------------|------------|

**Motor :**  
675 / 711

8

IN

690 GC 122

V 5950 10

57 x 12.6 x 174.5

30

G 5950 10

**Vehicle :**

EX

688 GC 2352A

V 5950 20

48 x 12.6 x 174.5

30

G 5950 20



**Motor :**  
675 / 711

6

IN

690 GC 2210

V 5960 10

43 x 9.5 x 176.5

30

G 5960 10

**Vehicle :**

EX

688 GC 2378

V 5960 20

39.5 x 9.5 x 174.5

30

G 5960 20



**Motor :**  
675 / 711

6

IN

690 GC 234

V 5970 10

57 x 12.6 x 166.5

30

G 5970 10

**Vehicle :**

EX

688 GC 2164

V 5970 20

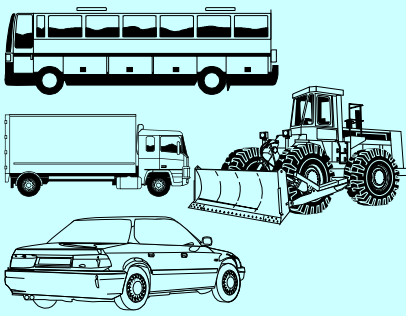
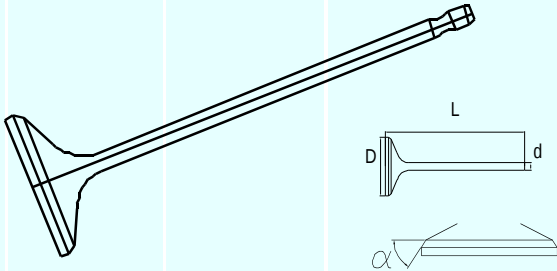
50.6 x 12.6 x 165.5

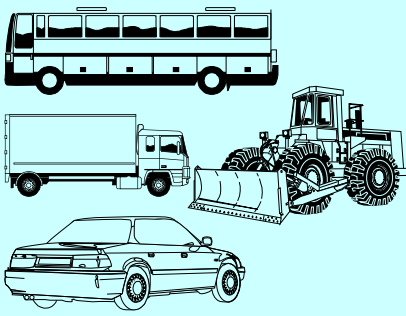
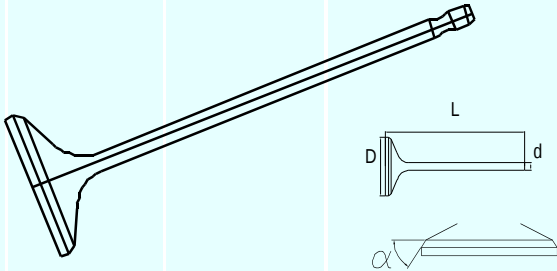
30

G 5970 20

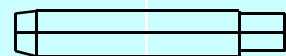
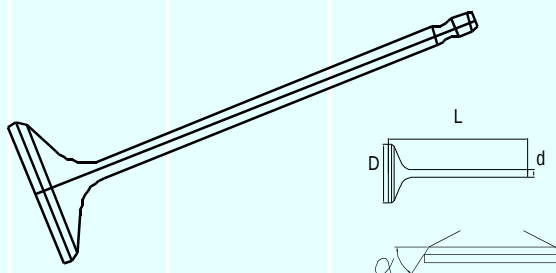


The original part numbers of the vehicle manufacturers are for comparison purposes only.

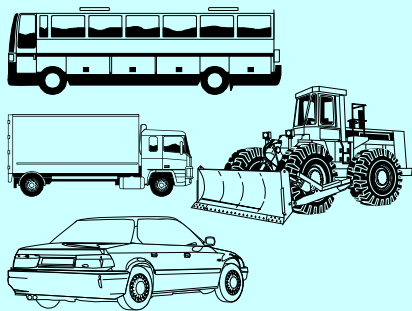
|          |      |          | <h1>MOTOMAR</h1>           |            |                                                                                                          |  |             |            |
|------------------------------------------------------------------------------------------|------|----------|----------------------------|------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------|------------|
| MAN                                                                                      | Cyl. | IN<br>EX | Original No                | Motomar No | D x d x L                                                                                                | $\alpha$                                                                           | Original No | Motomar No |
| <b>Motor :</b><br>D 2555, D 2565<br>D 2556, D 2566<br><br><b>Vehicle :</b><br>26/240     | 6    | IN       | 51041010332                | V 6010 10  | 58 x 12 x 142.5                                                                                          | 45                                                                                 | 51032010088 | G 6010 10  |
|                                                                                          |      | EX       | 51041010367<br>51041010479 | V 6010 20  | 52 x 12 x 142.5<br>     | 45                                                                                 | 51032010088 | G 6010 10  |
| <b>Motor :</b><br>D 2865, D 2866<br><br><b>Vehicle :</b><br>26/281                       | 6    | IN       | 51041010375<br>51041010478 | V 6020 10  | 58 x 12 x 142.5                                                                                          | 30                                                                                 | 51032010088 | G 6010 10  |
|                                                                                          |      | EX       | 51041010367<br>51041010479 | V 6010 20  | 52 x 12 x 142.5<br>   | 45                                                                                 | 51032010088 | G 6010 10  |
| <b>Motor :</b><br>2146, 2156 M<br><br><b>Vehicle :</b><br>Icarus                         | 6    | IN       | 51041010305                | V 6030 10  | 56 x 12 x 148.9                                                                                          | 45                                                                                 | 51032010047 | G 6030 10  |
|                                                                                          |      | EX       | 51041010373                | V 6030 20  | 48.9 x 12 x 148.5<br> | 45                                                                                 | 51032010048 | G 6030 20  |
| <b>Motor :</b><br>D 2146, D 2156 MT<br><br><b>Vehicle :</b><br>Raba                      | 6    | IN       | 51041010379                | V 6040 10  | 56 x 12 x 148.9<br>   | 30                                                                                 | 51032010047 | G 6030 10  |
|                                                                                          |      | EX       | 51041010373                | V 6040 20  | 48.9 x 12 x 148.5<br> | 45                                                                                 | 51032010048 | G 6030 20  |
| The original part numbers of the vehicle manufacturers are for comparison purposes only. |      |          |                            |            |                                                                                                          |                                                                                    |             |            |

|  |      |          | <h1>MOTOMAR</h1>         |            |                                                                                                          |  |                          |            |
|----------------------------------------------------------------------------------|------|----------|--------------------------|------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------|------------|
| MERCEDES BENZ                                                                    | Cyl. | IN<br>EX | Original No              | Motomar No | D x d x L                                                                                                | α                                                                                  | Original No              | Motomar No |
| <b>Motor :</b><br>OM 352<br><br><b>Vehicle :</b>                                 | 6    | IN       | 3520530101               | V 6510 10  | 44 x 9 x 140.5<br>      | 45                                                                                 | 3520531229               | G 6510 10  |
|                                                                                  |      | EX       | 3520500027<br>3520501505 | V 6510 20  | 36 x 10 x 140.5<br>     | 45                                                                                 | 3520531630               | G 6510 20  |
| <b>Motor :</b><br>OM 327, OM 302<br><br><b>Vehicle :</b>                         | 6    | IN       | 3270530701               | V 6520 10  | 54 x 10 x 150<br><br> | 45                                                                                 | 3270530830<br>3600530029 | G 6520 10  |
|                                                                                  |      | EX       | 3270530705               | V 6520 20  | 43 x 10 x 150<br>     | 45                                                                                 | 3270531430<br>3600530030 | G 6520 20  |
| <b>Motor :</b><br>OM 355, OM 346<br><br><b>Vehicle :</b>                         | 6    | IN       | 3460530101               | V 6530 10  | 42 x 9 x 129.8<br>    | 45                                                                                 | 3460530929               | G 6530 10  |
|                                                                                  |      | EX       | 3460530105               | V 6530 20  | 37 x 9 x 165.3<br>    | 45                                                                                 | 3550530330               | G 6530 20  |

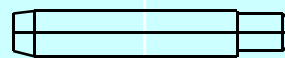
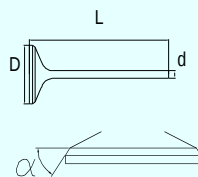
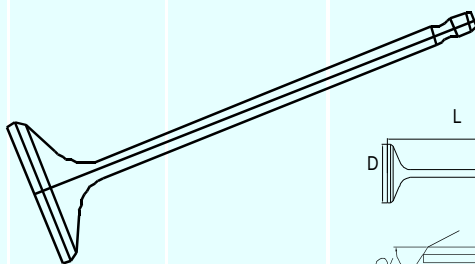
The original part numbers of the vehicle manufacturers are for comparison purposes only.



| MERCEDES BENZ                                                                            | Cyl.            | IN<br>EX | Original No              | Motomar No | D x d x L                                                                                              | α  | Original No | Motomar No |
|------------------------------------------------------------------------------------------|-----------------|----------|--------------------------|------------|--------------------------------------------------------------------------------------------------------|----|-------------|------------|
| Motor :<br>OM 355 A<br>Turbocharged                                                      | 6               | IN       | 3550530001               | V 6540 10  | 42 x 9 x 130.6                                                                                         | 30 | 3460530929  | G 6530 10  |
|                                                                                          |                 | EX       | 3550530005               | V 6540 20  | 37 x 9 x 165.9<br>    | 30 | 3550530330  | G 6530 20  |
| Motor :<br>OM 401                                                                        | 6/8<br>10<br>12 | IN       | 4230500026               | V 6550 10  | 59 x 12 x 142.5                                                                                        | 30 | 4030530030  | G 6550 10  |
|                                                                                          |                 | EX       | 4230500427               | V 6550 20  | 51 x 12 x 142.5<br> | 45 | 4030530030  | G 6550 10  |
| Motor :<br>OM 442                                                                        | 6               | IN       | 4420500326               | V 6560 10  | 58.9 x 12 x 142.5                                                                                      | 30 | 4030530030  | G 6550 10  |
|                                                                                          |                 | EX       | 4220500027<br>4420500227 | V 6560 20  | 51 x 12 x 142.5<br> | 45 | 4030530030  | G 6550 10  |
| The original part numbers of the vehicle manufacturers are for comparison purposes only. |                 |          |                          |            |                                                                                                        |    |             |            |



# MOTOMAR



**R.V.I.**

Cyl.

IN  
EX

Original No

Motomar No

D x d x L

$\alpha$

Original No

Motomar No

**Motor :**  
798  
Turbocharged

6

IN

5000676255

V 7010 10

45.8 x 10 x 140.2

30

0033123074

G 7010 10

**Vehicle :**  
S 150

EX

5000676254

V 7010 20

38.9 x 10 x 140.2

45

0033123076

G 7010 20



**Motor :**  
602.26

6

IN

5000667762

V 7020 10

46.6 x 10 x 140.2

30

0033123074

G 7010 10

**Vehicle :**  
S 222

EX

5000667628

V 7020 20

40.6 x 10 x 140.2

45

0033123076

G 7010 20



**Motor :**  
620.45, 620.30  
Turbocharged

6

IN

5000663530

V 7030 10

54 x 9 x 163.3

30

50100359098

G 7030 10

**Vehicle :**  
E 280, E 235

EX

5000663528

V 7030 20

48 x 9 x 163.1

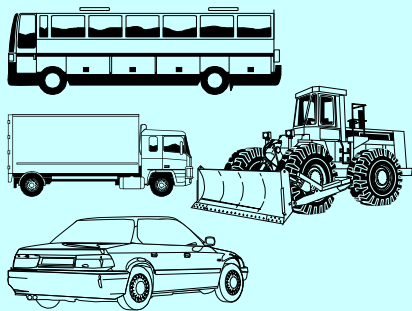
45

50100359099

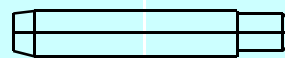
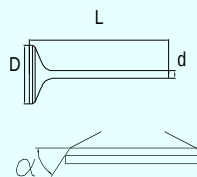
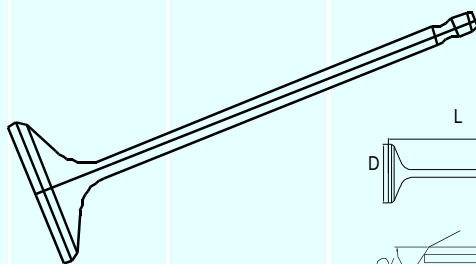
G 7030 20



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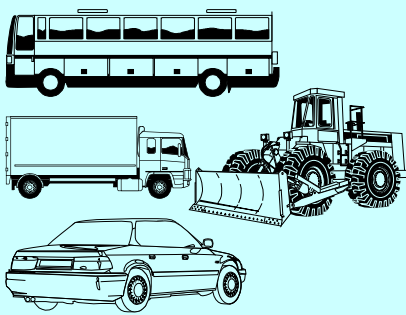
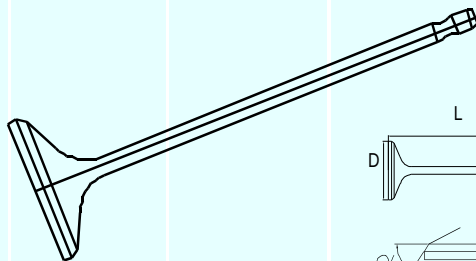
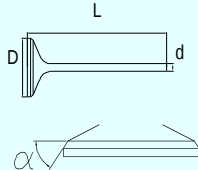


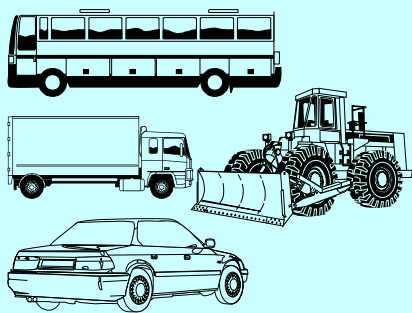
# MOTOMAR



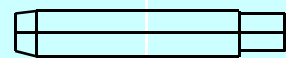
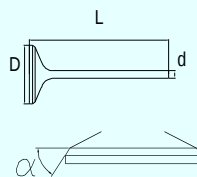
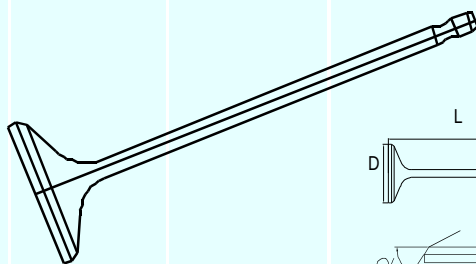
| R.V.I.                                                    | Cyl. | IN<br>EX | Original No | Motomar No | D x d x L                                                                           | $\alpha$ | Original No | Motomar No |
|-----------------------------------------------------------|------|----------|-------------|------------|-------------------------------------------------------------------------------------|----------|-------------|------------|
| <b>Motor :</b><br>635.40<br><br><b>Vehicle :</b><br>R 340 | 6    | IN       | 5000678286  | V 7040 10  | 60 x 12 x 189.3                                                                     | 30       | 5000151539  | G 7040 10  |
|                                                           |      | EX       | 5000678287  | V 7040 20  | 54 x 12 x 189.3                                                                     | 45       | 5000150262  | G 7040 20  |
|                                                           |      |          |             |            |    |          |             |            |
| <b>Motor :</b><br>635.40 H/2<br>Turbocharged              | 6    | IN       | 5000678873  | V 7050 10  | 60 x 12 x 204.4                                                                     | 30       | 5000678525  | G 7050 10  |
| <b>Vehicle :</b><br>AE 380<br>AE 385 TI<br>AE 420 TI      |      | EX       | 5000678652  | V 7050 20  | 52 x 12 x 205.1                                                                     | 30       | 5010248411  | G 7050 20  |
|                                                           |      |          |             |            |  |          |             |            |

The original part numbers of the vehicle manufacturers are for comparison purposes only.

|          |      |          | <h1>MOTOMAR</h1>                                                                   |            |                                                                                                        |          |                                                                                     |            |
|------------------------------------------------------------------------------------------|------|----------|------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|------------|
|                                                                                          |      |          |  |            |                      |          |  |            |
| SCANIA                                                                                   | Cyl. | IN<br>EX | Original No                                                                        | Motomar No | D x d x L                                                                                              | $\alpha$ | Original No                                                                         | Motomar No |
| <b>Motor :</b><br>D 8<br><br><b>Vehicle :</b>                                            | 6    | IN       | 215 715                                                                            | V 7510 10  | 50 x 11 x 169<br>     | 30       | 277 409                                                                             | G 7510 10  |
|                                                                                          |      | EX       | 168 843                                                                            | V 7510 20  | 42 x 11 x 169<br>     | 30       | 277 409                                                                             | G 7510 10  |
| <b>Motor :</b><br>DS 9<br>DSC 9<br><br><b>Vehicle :</b><br>92, 93                        | 6    | IN       | 131 9081                                                                           | V 7520 10  | 51 x 11 x 162.5<br> | 20       | 300 957                                                                             | G 7520 10  |
|                                                                                          |      | EX       | 366 256<br>278 102<br>136 0877                                                     | V 7520 20  | 44 x 11 x 162.5<br> | 45       | 300 958                                                                             | G 7520 20  |
| <b>Motor :</b><br>DS 10, DS11<br><br><b>Vehicle :</b><br>111                             | 6    | IN       | 272 804<br>272 803                                                                 | V 7530 10  | 54 x 11 x 162.5<br> | 30       | 300 957                                                                             | G 7520 10  |
|                                                                                          |      | EX       | 232 018                                                                            | V 7530 20  | 45 x 11 x 162.5<br> | 45       | 300 958                                                                             | G 7520 20  |
| <b>Motor :</b><br>DSC 11<br>Turbocharged<br><br><b>Vehicle :</b><br>112                  | 6    | IN       | 294 674                                                                            | V 7540 10  | 54 x 11 x 162.5<br> | 20       | 300 957                                                                             | G 7520 10  |
|                                                                                          |      | EX       | 232 018                                                                            | V 7540 20  | 45 x 11 x 162.5<br> | 45       | 300 958                                                                             | G 7520 20  |
| The original part numbers of the vehicle manufacturers are for comparison purposes only. |      |          |                                                                                    |            |                                                                                                        |          |                                                                                     |            |



# MOTOMAR



## SCANIA

| Cyl. | IN<br>EX | Original No | Motomar No | D x d x L | α | Original No | Motomar No |
|------|----------|-------------|------------|-----------|---|-------------|------------|
|------|----------|-------------|------------|-----------|---|-------------|------------|

**Motor :**  
DSC 14

6

IN

294 674

V 7550 10

54 x 11 x 162.5

20

300 957

G 7520 10

**Vehicle :**  
113

EX

111 6987

V 7550 20

44.6 x 11 x 162.5 45

300 958

G 7520 20



**Motor :**  
DS 14, DN 14

8

IN

289 165

V 7560 10

54 x 11 x 162.5

20

300 957

G 7520 10

**Vehicle :**  
142

EX

243 477

V 7560 20

44 x 11 x 162.5 45

300 958

G 7520 20



**Motor :**  
DSC 12

6

IN

133 3230

V 7570 10

45 x 10 x 171.5

20

300 957

G 7520 10

**Vehicle :**  
124

EX

132 8537

V 7570 20

41 x 10 x 171.5

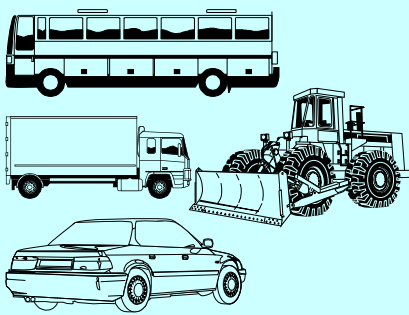
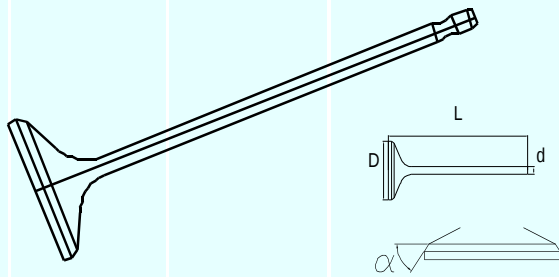
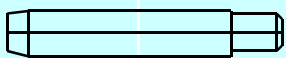
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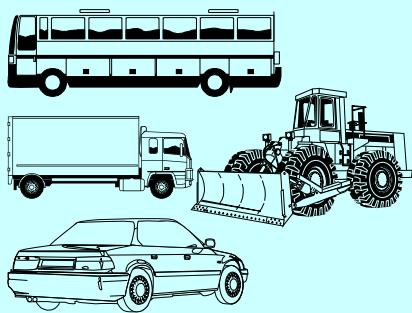
300 958

G 7520 20

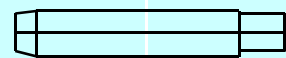
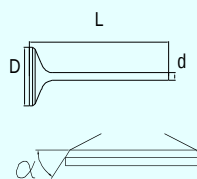
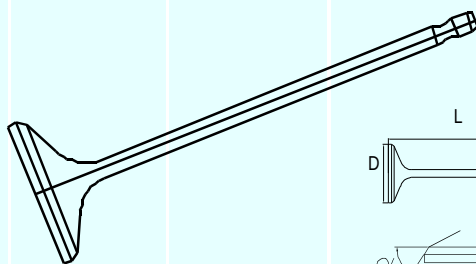


The original part numbers of the vehicle manufacturers are for comparison purposes only.

|          |                                                                                    |          |  |            |                                                                                                        |          |                                                                                     |            |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|------------|
|                                                                                          |  |          |                                                                                   |            |                                                                                                        |          |  |            |
| VOLVO                                                                                    | Cyl.                                                                               | IN<br>EX | Original No                                                                       | Motomar No | D x d x L                                                                                              | $\alpha$ | Original No                                                                         | Motomar No |
| <b>Motor :</b><br>TD 60, TD 61<br><br><b>Vehicle :</b>                                   | 6                                                                                  | IN       | 420 553                                                                           | V 9010 10  | 41 x 8 x 146.3                                                                                         | 30       | 465 157                                                                             | G 9010 10  |
|                                                                                          |                                                                                    | EX       | 465 549                                                                           | V 9010 20  | <br>37 x 4 x 145.3    | 45       | 465 157                                                                             | G 9010 10  |
| <b>Motor :</b><br>D 70<br><br><b>Vehicle :</b>                                           | 6                                                                                  | IN       | 421 016                                                                           | V 9020 10  | 43 x 11 x 148.6                                                                                        | 30       | 421 297                                                                             | G 9020 10  |
|                                                                                          |                                                                                    | EX       | 421 208                                                                           | V 9020 20  | <br>37 x 11 x 148.5   | 45       | 421 297                                                                             | G 9020 10  |
| <b>Motor :</b><br>TD 70<br><br><b>Vehicle :</b>                                          | 6                                                                                  | IN       | 466 379                                                                           | V 9030 10  | 43 x 11 x 148.5                                                                                        | 30       | 421 297                                                                             | G 9020 10  |
|                                                                                          |                                                                                    | EX       | 421 680                                                                           | V 9030 20  | <br>37 x 11 x 148.5 | 45       | 421 297                                                                             | G 9020 10  |
| <b>Motor :</b><br>D 100<br><br><b>Vehicle :</b><br>N 10                                  | 6                                                                                  | IN       | 422 016                                                                           | V 9040 10  | 50 x 11 x 167.2                                                                                        | 30       | 422 320                                                                             | G 9040 10  |
|                                                                                          |                                                                                    | EX       | 422 017                                                                           | V 9040 20  | <br>46 x 11 x 167.2 | 45       | 421 297                                                                             | G 9020 10  |
| The original part numbers of the vehicle manufacturers are for comparison purposes only. |                                                                                    |          |                                                                                   |            |                                                                                                        |          |                                                                                     |            |



# MOTOMAR



## VOLVO

| Cyl. | IN<br>EX | Original No | Motomar No | D x d x L | $\alpha$ | Original No | Motomar No |
|------|----------|-------------|------------|-----------|----------|-------------|------------|
|------|----------|-------------|------------|-----------|----------|-------------|------------|

**Motor :**  
TD 100, TD 101

6

IN

479 204

V 9050 10

50 x 11 x 167.2

30

422 320

G 9040 10

**Vehicle :**  
F 10

EX

467 855

V 9050 20



46 x 11 x 167.2

45

421 297

G 9020 10

**Motor :**  
TD 120

6

IN

468 302

V 9060 10

54 x 11 x 167.2

30

422 320

G 9040 10

**Vehicle :**  
F 12

EX

468 703

V 9060 20



50 x 11 x 167.2

45

421 297

G 9020 10

**Motor :**  
D 12 A

6

IN

154 7492

V 9070 10

40 x 8 x 192

30

G 9070 10

**Vehicle :**  
FH 12

EX

814 8574

V 9070 20



40 x 8 x 192

45

G 9070 20

**Motor :**  
TD 162 F

6

IN

155 6472

V 9080 10

47 x 9.5 x 176.8

30

155 6607

G 9080 10

**Vehicle :**  
FH 16

EX

155 6473

V 9080 20



45 x 9.5 x 176.9

45

155 6604

G 9080 20

The original part numbers of the vehicle manufacturers are for comparison purposes only.



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