

# VIBRÁTORY

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## MOTORY DO VÝBUŠNÉHO PROSTŘEDÍ (ATEX CERTIFIKÁT)

Ex II 2 G, D Eex e II T4/T3 (G)  
120°C (D)

## ELEKTRICKÉ WEV, VV, VO, VA, VF

IP 65-66, T tropicalised, Siemens statory,  
tuk 150 °C, speciální ložiska

## MIKROVIBRÁTORY jednofázové, třífázové

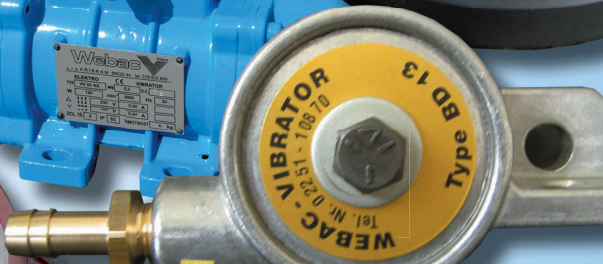
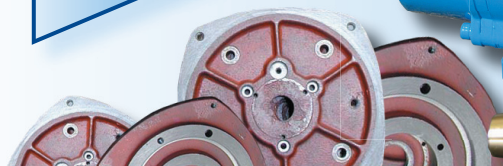
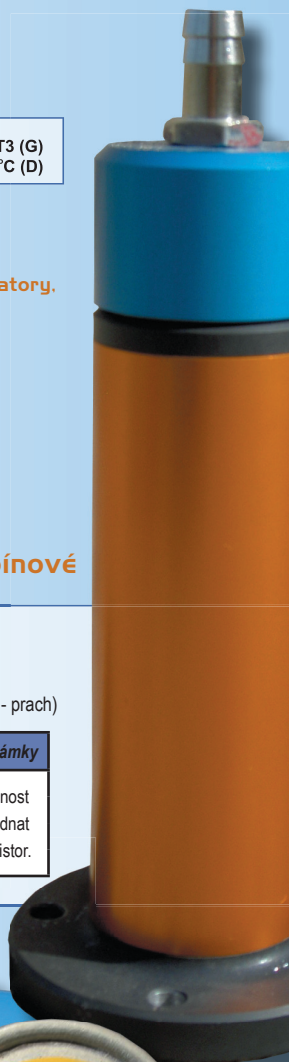
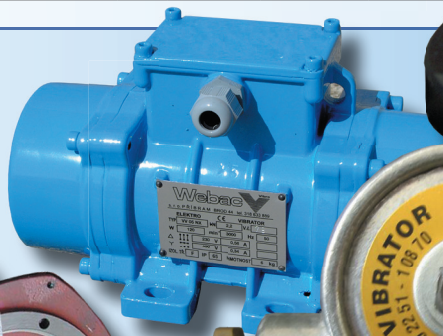
## PNEUMATICKÉ kuličkové, válečkové, pístové - kladívkové, turbínové

### MOTORY DO VÝBUŠNÉHO PROSTŘEDÍ

Použité normy: EN50014, EN50019, EN 50281.1.1

Nebezpečné zóny: Ex II 2 G, D EEx e II T4/T3 (G - plyn) 120 °C (D - prach)

| Typ                   | Zóna | Kategorie | Teplotní třída | Poznámky                          |
|-----------------------|------|-----------|----------------|-----------------------------------|
| Možnost výbuchu plynu | 1    | 2G        | T3/ T4         | Možnost<br>objednat<br>termistor. |
| Možnost výbuchu plynu | 2    | 3G        | T3/ T4         |                                   |
| Výbušný prach         | 21   | 2D        | 120°C          |                                   |
| Výbušný prach         | 22   | 3D        | 120°C          |                                   |



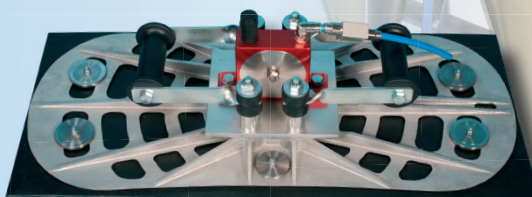
VIBRÁTORY  
do nevýbušného prostředí  
elektrické  
mikro  
pneumatické

# APLIKACE VIBROMOTORŮ

*Stolek pro malé formy – např. čokolády.*



*Vibrační leštičky disků kol automobilů.*



*Vibrační deska příločná (např. na Big-Bag).*



|       |        |          |    |
|-------|--------|----------|----|
| CE    |        | VIBRATOR |    |
| 220 V | 0.58 A | 3000 Hz  | 50 |
| 400 V | 0.34 A |          |    |
| IP 65 |        |          |    |

# ELEKTRICKÉ VIBRÁTORY SÉRIE WEV

Je možné je objednat do zóny s nebezpečím výbuchu i do zóny nevýbušné, pod označením VV. EEx e zvyšuje bezpečnost elektrických vibrátorů v souladu s normou ATEX (94/9/CE).



**II 2 G,D Eex e II T4/T3 (G)  
120 °C (D)**

Použité normy: EN50014, EN50019, EN 50281.1.1

Nebezpečné zóny:

Ex II 2 G,D EEx e II T4/T3 (G - plyn)

120 °C (D - prach)

| Typ                   | Zóna | Kategorie | Teplotní třída | Poznámky                    |
|-----------------------|------|-----------|----------------|-----------------------------|
| Možnost výbuchu plynu | 1    | 2G        | T3/ T4         | Možnost objednat termistor. |
| Možnost výbuchu plynu | 2    | 3G        | T3/ T4         |                             |
| Výbušný prach         | 21   | 2D        | 120 °C         |                             |
| Výbušný prach         | 22   | 3D        | 120 °C         |                             |

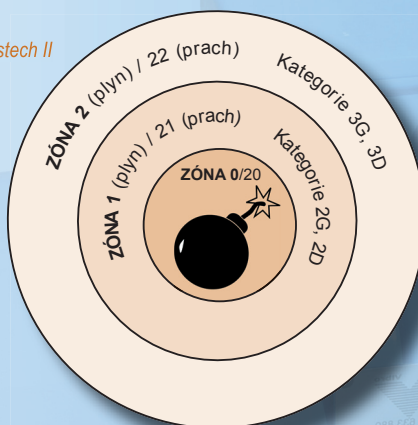
Možnost objednat termistor.

## Technické vlastnosti:

- mechanické vlastnosti (statický moment, odstředivá síla, váha a rozměry) jsou stejné jako u standardních WEV typů
- pro třífázové napětí
- speciální měděné štítky
- kabelová vývodka splňující normu ATEX EEx e II
- zemění svorkovnice i pláště vibrátoru
- použitý termistor PTC 120 °C - jeho zapojení je nutné pro použití v prašném prostředí zón 21 a 22
- Vibromotory WEV stejně jako VO, VA, VV je možné použít nejen do vysokých teplot, případně pro speciální použití v případě nutnosti typů s ATEX, ale také až do -40 °C. Voltáž všech vibromotorů může být kromě standardních 230/400 V objednána prakticky jakákoliv.
- nadstandardní kontrola 100 % všech komponentů.

*Zařízení pro použití v oblastech II*

**MOTORY  
DO VÝBUŠNÉHO  
PROSTŘEDÍ  
(ATEX CERTIFIKÁT)**



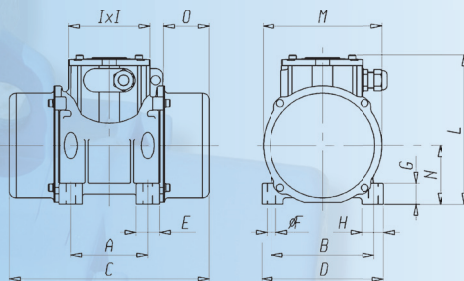
# ELEKTRICKÉ VIBRÁTORY WEV

2PÓLOVÉ EL. MOTORY – 3 000 ot./min. 50 Hz/3 600 ot./min. 60 Hz

| Typ         | Odstředivá síla [kg] |       | Statický moment [kgmm] |       | Váha [kg] |       | Výkon [W] |       | Max. intenzita proudu [A] |             |
|-------------|----------------------|-------|------------------------|-------|-----------|-------|-----------|-------|---------------------------|-------------|
|             | 50 Hz                | 60 Hz | 50 Hz                  | 60 Hz | 50 Hz     | 60 Hz | 50 Hz     | 60 Hz | 50 Hz 400 V               | 60 Hz 460 V |
| WEV/03/14/2 | 120                  | 110   | 12                     | 7,5   | 5,8       | 5,6   | 170       | 170   | 0,33                      | 0,29        |
| WEV/05/14/2 | 205                  | 190   | 20                     | 13    | 6,3       | 5,9   | 170       | 170   | 0,33                      | 0,29        |
| WEV/10/14/2 | 320                  | 310   | 32                     | 21    | 9,7       | 9,2   | 250       | 260   | 0,57                      | 0,48        |
| WEV/15/14/2 | 520                  | 490   | 52                     | 34    | 14,8      | 13,8  | 430       | 470   | 0,76                      | 0,71        |
| WEV/25/14/2 | 800                  | 770   | 80                     | 53    | 21        | 20    | 610       | 650   | 1,00                      | 0,95        |
| WEV/35/14/2 | 1150                 | 1 100 | 114                    | 76    | 24        | 23    | 950       | 1 100 | 1,6                       | 1,6         |
| WEV/38/14/2 | 1 600                | 1 500 | 159                    | 104   | 43        | 41,5  | 1 900     | 1 900 | 3,2                       | 2,8         |
| WEV/40/14/2 | 2 350                | 2 250 | 234                    | 155   | 53        | 51,5  | 2 100     | 2 100 | 3,4                       | 2,9         |
| WEV/45/14/2 | 3 250                | 3 200 | 324                    | 220   | 105       | 101   | 3 800     | 3 800 | 6,2                       | 5,4         |
| WEV/55/14/2 | 4 000                | 3 800 | 398                    | 262   | 110       | 103   | 3 800     | 3 800 | 6,2                       | 5,4         |
| WEV/67/14/2 | 6 400                | 6 450 | 636                    | 445   | 188       | 181   | 5 300     | 5 300 | 8,8                       | 7,7         |
| WEV/71/14/2 | 9 000                | 9 000 | 895                    | 621   | 217       | 211   | 9 400     | 8 800 | 17                        | 12,3        |

## Rozměry v mm

| Typ         | Ref. | A     | B   | C   | D   | E     | ø F  | G    | H    | I   | L     | M   | N     | O     |
|-------------|------|-------|-----|-----|-----|-------|------|------|------|-----|-------|-----|-------|-------|
| WEV/03/14/2 | 2    | 62-74 | 106 | 216 | 125 | 30,5  | 9    | 24   | 23   | 93  | 154   | 129 | 64    | 50    |
| WEV/05/14/2 | 2    | 62-74 | 106 | 216 | 125 | 30,5  | 9    | 24   | 23   | 93  | 154   | 129 | 64    | 50    |
| WEV/10/14/2 | 2    | 90    | 125 | 243 | 152 | 28,5  | 13   | 28   | 30   | 93  | 178   | 144 | 73    | 54    |
| WEV/15/14/2 | 2    | 105   | 140 | 273 | 167 | 32    | 13   | 28,5 | 30   | 111 | 204   | 163 | 80    | 62,5  |
| WEV/25/14/2 | 2    | 120   | 170 | 308 | 205 | 38    | 17   | 40   | 33   | 111 | 214,5 | 191 | 91,5  | 63    |
| WEV/35/14/2 | 2    | 120   | 170 | 436 | 210 | 60    | 17   | 22   | 47,5 | 111 | 243   | 223 | 115,5 | 118   |
| WEV/38/14/2 | 2    | 140   | 190 | 422 | 230 | 81,5  | 17   | 22   | 45   | 111 | 235   | 224 | 104   | 83,5  |
| WEV/40/14/2 | 2    | 140   | 190 | 458 | 230 | 81,5  | 17   | 22   | 45   | 111 | 235   | 224 | 104   | 101,5 |
| WEV/45/14/2 | 2    | 155   | 255 | 590 | 310 | 103,5 | 23,5 | 30   | 60   | 155 | 335   | 309 | 160   | 140   |
| WEV/55/14/2 | 2    | 155   | 255 | 590 | 310 | 103,5 | 23,5 | 30   | 60   | 155 | 335   | 309 | 160   | 140   |
| WEV/67/14/2 | 2    | 200   | 320 | 662 | 390 | 111   | 28   | 32   | 75   | 155 | 381   | 384 | 189   | 151   |
| WEV/71/14/2 | 2    | 200   | 320 | 624 | 392 | 111   | 28   | 35   | 75   | 155 | 403   | 402 | 199,5 | 132   |



Ref. 2

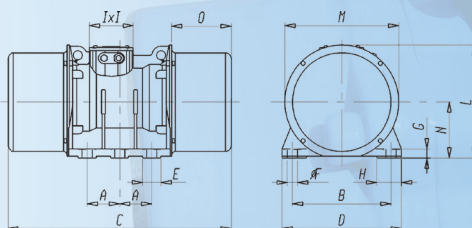


## 4PÓLOVÉ EL. MOTORY – I 500 ot./min. 50 Hz/I 800 ot./min. 60 Hz

| Typ         | Odstředivá síla [kg] |       | Statický moment [kgmm] |       | Váha [kg] |       | Výkon W |       | Max. intenzita proudu [A] |                |
|-------------|----------------------|-------|------------------------|-------|-----------|-------|---------|-------|---------------------------|----------------|
|             | 50 Hz                | 60 Hz | 50 Hz                  | 60 Hz | 50 Hz     | 60 Hz | 50 Hz   | 60 Hz | 50 Hz<br>400 V            | 60 Hz<br>460 V |
| WEV/03/02/4 | 35                   | 42    | 14,0                   | 11,6  | 6         | 6     | 80      | 90    | 0,20                      | 0,19           |
| WEV/05/02/4 | 80                   | 80    | 32,0                   | 22,1  | 6,6       | 6,4   | 80      | 90    | 0,20                      | 0,19           |
| WEV/10/02/4 | 220                  | 220   | 87,0                   | 60,8  | 12,5      | 11,5  | 160     | 160   | 0,38                      | 0,38           |
| WEV/20/02/4 | 420                  | 420   | 167                    | 116   | 19        | 18    | 280     | 330   | 0,57                      | 0,57           |
| WEV/30/02/4 | 750                  | 780   | 298                    | 215   | 28        | 26    | 500     | 620   | 0,88                      | 0,93           |
| WEV/35/02/4 | 1100                 | 1 000 | 437                    | 276   | 45,5      | 41    | 520     | 640   | 0,90                      | 0,90           |
| WEV/38/02/4 | 1 400                | 1 400 | 556                    | 387   | 55        | 52    | 850     | 1 000 | 1,37                      | 1,43           |
| WEV/40/02/4 | 1 800                | 1 750 | 714                    | 483   | 61        | 57    | 1 100   | 1 200 | 1,91                      | 1,83           |
| WEV/41/02/4 | 2 100                | 2 050 | 833                    | 566   | 72        | 70    | 1 300   | 1 400 | 2,4                       | 2,2            |
| WEV/50/02/4 | 2 500                | 2 500 | 992                    | 691   | 85        | 79    | 1 500   | 1 600 | 3,0                       | 2,9            |
| WEV/53/02/4 | 3 150                | 3 150 | 1 250                  | 870   | 95        | 92    | 1 800   | 1 900 | 3,6                       | 3,3            |
| WEV/55/02/4 | 3 800                | 3 800 | 1 508                  | 1 050 | 118       | 113   | 2 100   | 2 400 | 3,8                       | 3,7            |
| WEV/57/02/4 | 4 400                | 4 300 | 1 746                  | 1 188 | 125       | 120   | 2 400   | 2 700 | 4,6                       | 4,4            |
| WEV/60/02/4 | 5 000                | 4 950 | 1 984                  | 1 367 | 174       | 166   | 3 400   | 3 200 | 5,7                       | 4,8            |
| WEV/67/02/4 | 6 600                | 6 600 | 2 619                  | 1 823 | 212       | 200   | 5 700   | 5 700 | 10,0                      | 8,6            |
| WEV/71/02/4 | 8 200                | 8 200 | 3 175                  | 2 210 | 228       | 213   | 6 600   | 7 600 | 11,0                      | 10,9           |
| WEV/81/02/4 | 8 500                | 9 000 | 3 373                  | 2 486 | 319       | 305   | 7 100   | 8 000 | 11,5                      | 11,3           |

## Rozměry v mm

| Typ         | Rif. | A     | B   | C   | D   | E     | ø F  | G    | H    | I   | L     | M   | N     | O     |
|-------------|------|-------|-----|-----|-----|-------|------|------|------|-----|-------|-----|-------|-------|
| WEV/03/02/4 | 2    | 62-74 | 106 | 216 | 125 | 30,5  | 9    | 24   | 23   | 93  | 154   | 129 | 64    | 50    |
| WEV/05/02/4 | 2    | 62-74 | 106 | 216 | 125 | 30,5  | 9    | 24   | 23   | 93  | 154   | 129 | 64    | 50    |
| WEV/10/02/4 | 2    | 90    | 125 | 295 | 152 | 28,5  | 13   | 28   | 30   | 93  | 178   | 144 | 73    | 80    |
| WEV/20/02/4 | 2    | 105   | 140 | 340 | 167 | 32    | 13   | 28,5 | 30   | 111 | 204   | 163 | 80    | 96    |
| WEV/30/02/4 | 2    | 120   | 170 | 376 | 205 | 38    | 17   | 40   | 33   | 111 | 214,5 | 191 | 91,5  | 97    |
| WEV/35/02/4 | 2    | 120   | 170 | 436 | 210 | 60    | 17   | 22   | 47,5 | 111 | 243   | 223 | 115,5 | 118   |
| WEV/38/02/4 | 2    | 140   | 190 | 438 | 230 | 72    | 17   | 25   | 45   | 111 | 257   | 241 | 124,5 | 103   |
| WEV/40/02/4 | 2    | 140   | 190 | 486 | 230 | 72    | 17   | 25   | 45   | 111 | 257   | 241 | 124,5 | 127   |
| WEV/41/02/4 | 2    | 140   | 190 | 557 | 230 | 72    | 17   | 25   | 45   | 111 | 257   | 241 | 124,5 | 162,5 |
| WEV/50/02/4 | 2    | 155   | 225 | 522 | 275 | 79,5  | 22   | 28   | 55   | 111 | 283   | 271 | 140   | 129,5 |
| WEV/53/02/4 | 2    | 155   | 225 | 600 | 275 | 79,5  | 22   | 28   | 55   | 111 | 283   | 271 | 140   | 168,5 |
| WEV/55/02/4 | 2    | 155   | 255 | 590 | 310 | 103,5 | 23,5 | 30   | 60   | 155 | 335   | 309 | 160   | 140   |
| WEV/57/02/4 | 2    | 155   | 255 | 658 | 310 | 103,5 | 23,5 | 30   | 60   | 155 | 335   | 309 | 160   | 174   |
| WEV/60/02/4 | 2    | 180   | 280 | 638 | 340 | 106   | 26   | 30   | 65   | 155 | 369   | 336 | 173   | 154   |
| WEV/67/02/4 | 2    | 200   | 320 | 662 | 390 | 111   | 28   | 32   | 75   | 155 | 381   | 384 | 189   | 151   |
| WEV/71/02/4 | 2    | 200   | 320 | 624 | 392 | 111   | 28   | 35   | 75   | 155 | 403   | 402 | 199,5 | 132   |
| WEV/81/02/4 | 3    | 125   | 380 | 862 | 460 | 70    | 39   | 35   | 95   | 170 | 434,5 | 439 | 215   | 230   |



## 6PÓLOVÉ EL. MOTORY – 1 000 ot./min. 50 Hz/1 200 ot./min. 60 Hz

| Typ          | Odstředivá síla [kg] |        | Statický moment [kgmm] |        | Váha [kg] |       | Výkon W |        | Max. intenzita proudu [A] |             |
|--------------|----------------------|--------|------------------------|--------|-----------|-------|---------|--------|---------------------------|-------------|
|              | 50 Hz                | 60 Hz  | 50 Hz                  | 60 Hz  | 50 Hz     | 60 Hz | 50 Hz   | 60 Hz  | 50 Hz 400 V               | 60 Hz 460 V |
| WEV/20/02/6  | 200                  | 288    | 179                    | 179    | 19        | 19    | 180     | 200    | 0,48                      | 0,48        |
| WEV/30/02/6  | 300                  | 300    | 268                    | 186    | 23        | 21    | 330     | 360    | 0,68                      | 0,65        |
| WEV/35/02/6  | 500                  | 718    | 446                    | 446    | 47        | 47    | 330     | 360    | 0,71                      | 0,65        |
| WEV/38/02/6  | 800                  | 900    | 714                    | 559    | 60        | 55    | 640     | 720    | 1,30                      | 1,30        |
| WEV/40/02/6  | 1 100                | 1 150  | 982                    | 714    | 70        | 61    | 710     | 710    | 1,60                      | 1,30        |
| WEV/41/02/6  | 1 500                | 1 500  | 1 339                  | 937    | 81        | 74    | 900     | 950    | 2,0                       | 1,9         |
| WEV/50/02/6  | 1 700                | 1 597  | 1 518                  | 992    | 95        | 85    | 1 000   | 1 300  | 2,1                       | 2,1         |
| WEV/53/02/6  | 2 200                | 2 200  | 1 964                  | 1 375  | 108       | 96    | 1 400   | 1 600  | 2,8                       | 2,7         |
| WEV/55/02/6  | 2 600                | 2 600  | 2 321                  | 1 615  | 133       | 120   | 1 800   | 2 000  | 3,9                       | 3,6         |
| WEV/57/02/6  | 3 100                | 3 200  | 2 767                  | 2 000  | 148       | 133   | 2 100   | 2 300  | 4,3                       | 4,1         |
| WEV/60/02/6  | 3 900                | 3 900  | 3 482                  | 2 422  | 201       | 183   | 2 400   | 2 800  | 4,8                       | 4,7         |
| WEV/62/02/6  | 4 800                | 4 700  | 4 285                  | 2 937  | 217       | 196   | 3 100   | 3 500  | 6,3                       | 5,8         |
| WEV/65/02/6  | 5 300                | 5 300  | 4 732                  | 3 292  | 242       | 220   | 3 600   | 3 800  | 6,7                       | 6,2         |
| WEV/67/02/6  | 6 400                | 6 400  | 5 714                  | 3 975  | 267       | 239   | 4 100   | 4 700  | 7,7                       | 7,6         |
| WEV/71/02/6  | 8 100                | 8 100  | 7 232                  | 5 031  | 320       | 285   | 6 600   | 7 100  | 11,9                      | 10,7        |
| WEV/75/02/6  | 8 700                | 8 700  | 7 768                  | 5 404  | 330       | 292   | 7 100   | 7 700  | 13,2                      | 12,1        |
| WEV/81/02/6  | 9 800                | 9 800  | 8 750                  | 6 087  | 383       | 343   | 7 200   | 7 500  | 12,8                      | 11,6        |
| WEV/110/02/6 | 11 300               | 11 000 | 10 089                 | 6 830  | 402       | 363   | 9 200   | 9 600  | 16,3                      | 15,4        |
| WEV/130/02/6 | 13 000               | 12 000 | 11 607                 | 7 453  | 440       | 385   | 9 200   | 9 600  | 16,3                      | 15,4        |
| WEV/141/02/6 | 14 200               | 14 100 | 12 679                 | 8 758  | 638       | 600   | 10 200  | 11 000 | 18,3                      | 17,6        |
| WEV/171/02/6 | 17 500               | 17 000 | 15 625                 | 10 560 | 705       | 651   | 12 500  | 13 000 | 23,6                      | 21,9        |
| WEV/221/02/6 | 22 500               | 20 400 | 20 090                 | 12 670 | 920       | 890   | 18 300  | 18 300 | 31,8                      | 24,6        |
| WEV/250/02/6 | 25 000               | -      | 22 322                 | -      | 950       | -     | 18 300  | -      | 31,8                      | -           |

## Rozměry v mm

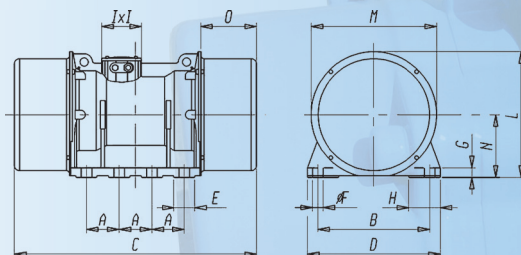
| Typ          | Rif. | A   | B   | C       | D           | E   | øF    | G    | H    | I   | L       | M     | N     | O     |
|--------------|------|-----|-----|---------|-------------|-----|-------|------|------|-----|---------|-------|-------|-------|
| WEV/20/02/6  | 2    | 105 | 140 | 340     | 167         | 32  | 13    | 28,5 | 30   | 111 | 204     | 163   | 80    | 96    |
| WEV/30/02/6  | 2    | 120 | 170 | 376     | 205         | 38  | 17    | 40   | 33   | 111 | 214,5   | 191   | 91,5  | 97    |
| WEV/35/02/6  | 2    | 120 | 170 | 436     | 210         | 60  | 17    | 22   | 47,5 | 111 | 243     | 223   | 115,5 | 118   |
| WEV/38/02/6  | 2    | 140 | 190 | 486-438 | 50 Hz-60 Hz | 230 | 72    | 17   | 25   | 45  | 111     | 257   | 241   | 124,5 |
| WEV/40/02/6  | 2    | 140 | 190 | 557-486 | 50 Hz-60 Hz | 230 | 72    | 17   | 25   | 45  | 111     | 257   | 241   | 124,5 |
| WEV/41/02/6  | 2    | 140 | 190 | 557     |             | 230 | 72    | 17   | 25   | 45  | 111     | 257   | 241   | 124,5 |
| WEV/50/02/6  | 2    | 155 | 225 | 600-522 | 50 Hz-60 Hz | 275 | 79,5  | 22   | 28   | 55  | 111     | 283   | 271   | 140   |
| WEV/53/02/6  | 2    | 155 | 225 | 600-522 | 50 Hz-60 Hz | 275 | 79,5  | 22   | 28   | 55  | 111     | 283   | 271   | 140   |
| WEV/55/02/6  | 2    | 155 | 255 | 658     |             | 310 | 103,5 | 23,5 | 30   | 60  | 155     | 335   | 309   | 160   |
| WEV/57/02/6  | 2    | 155 | 255 | 698     |             | 310 | 103,5 | 23,5 | 30   | 60  | 155     | 335   | 309   | 160   |
| WEV/60/02/6  | 2    | 180 | 280 | 730     |             | 340 | 106   | 26   | 30   | 65  | 155     | 369   | 336   | 173   |
| WEV/62/02/6  | 2    | 180 | 280 | 790     |             | 340 | 106   | 26   | 30   | 65  | 155     | 369   | 336   | 173   |
| WEV/65/02/6  | 2    | 200 | 320 | 736     |             | 390 | 111   | 28   | 32   | 75  | 155     | 381   | 384   | 189   |
| WEV/67/02/6  | 2    | 200 | 320 | 836     |             | 390 | 111   | 28   | 32   | 75  | 155     | 381   | 384   | 189   |
| WEV/71/02/6  | 2    | 200 | 320 | 854     |             | 392 | 111   | 28   | 35   | 75  | 155     | 403   | 402   | 199,5 |
| WEV/75/02/6  | 2    | 200 | 320 | 854     |             | 392 | 111   | 28   | 35   | 75  | 155     | 403   | 402   | 199,5 |
| WEV/81/02/6  | 3    | 125 | 380 | 862     |             | 460 | 70    | 39   | 35   | 95  | 170     | 434,5 | 439   | 215   |
| WEV/110/02/6 | 3    | 125 | 380 | 1 002   |             | 460 | 70    | 39   | 35   | 95  | 170     | 434,5 | 439   | 215   |
| WEV/130/02/6 | 3    | 125 | 380 | 1 002   |             | 460 | 70    | 39   | 35   | 95  | 170     | 434,5 | 439   | 215   |
| WEV/141/02/6 | 4    | 140 | 480 | 960     |             | 570 | 90    | 45   | 41   | 135 | 170     | 537   | 538   | 268   |
| WEV/171/02/6 | 4    | 140 | 480 | 1 040   |             | 570 | 90    | 45   | 41   | 135 | 170     | 537   | 538   | 268   |
| WEV/221/02/6 | 4    | 140 | 520 | 1 150   |             | 610 | 90    | 45   | 38   | 145 | 250x210 | 612   | 594   | 297   |
| WEV/250/02/6 | 4    | 140 | 520 | 1 150   |             | 610 | 90    | 45   | 38   | 145 | 250x210 | 612   | 594   | 297   |

## 8PÓLOVÉ EL. MOTORY – 750 ot./min. 50 Hz/900 ot./min. 60 Hz

| Typ          | Odstředivá síla [kg] |        | Statický moment [kgmm] |        | Váha [kg] |       | Výkon W |        | Max. intenzita proudu [A] |             |
|--------------|----------------------|--------|------------------------|--------|-----------|-------|---------|--------|---------------------------|-------------|
|              | 50 Hz                | 60 Hz  | 50 Hz                  | 60 Hz  | 50 Hz     | 60 Hz | 50 Hz   | 60 Hz  | 50 Hz 400 V               | 60 Hz 460 V |
| WEV/20/02/8  | 113                  | 163    | 179                    | 179    | 19        | 19    | 210     | 230    | 0,80                      | 0,71        |
| WEV/30/02/8  | 200                  | 290    | 317                    | 317    | 23        | 23    | 330     | 360    | 1,0                       | 1,0         |
| WEV/35/02/8  | 281                  | 490    | 446                    | 446    | 47        | 47    | 260     | 280    | 0,57                      | 0,55        |
| WEV/38/02/8  | 450                  | 650    | 714                    | 714    | 60        | 60    | 370     | 420    | 1,1                       | 1,1         |
| WEV/40/02/8  | 619                  | 894    | 982                    | 982    | 70        | 70    | 370     | 470    | 1,3                       | 1,2         |
| WEV/50/02/8  | 956                  | 1 381  | 1 518                  | 1 518  | 95        | 95    | 900     | 100    | 2,1                       | 2,1         |
| WEV/53/02/8  | 1 220                | 1 762  | 1 937                  | 1 937  | 106       | 106   | 1 050   | 1 250  | 2,5                       | 2,5         |
| WEV/55/02/8  | 1 462                | 2 112  | 2 321                  | 2 321  | 133       | 133   | 1 400   | 1 700  | 3,6                       | 3,7         |
| WEV/60/02/8  | 2 194                | 3 167  | 3 482                  | 3 482  | 201       | 201   | 1 900   | 2 200  | 5,1                       | 5,0         |
| WEV/62/02/8  | 2 700                | 3 900  | 4 285                  | 4 285  | 217       | 217   | 2 400   | 2 800  | 5,8                       | 5,8         |
| WEV/65/02/8  | 2 981                | 4 306  | 4 732                  | 4 732  | 242       | 242   | 2 700   | 3 200  | 6,2                       | 6,2         |
| WEV/67/02/8  | 3 600                | 5 200  | 5 714                  | 5 714  | 267       | 267   | 3 800   | 4 100  | 7,7                       | 7,4         |
| WEV/71/02/8  | 4 556                | 6 581  | 7 232                  | 7 232  | 320       | 320   | 4 700   | 5 500  | 9,4                       | 9           |
| WEV/81/02/8  | 8 000                | 10 000 | 12 700                 | 10 990 | 441       | 422   | 6 400   | 7 000  | 12,5                      | 11,3        |
| WEV/141/02/8 | 11 500               | 14 000 | 18 254                 | 15 385 | 698       | 676   | 8 700   | 9 100  | 19,9                      | 18,5        |
| WEV/171/02/8 | 13 500               | 17 300 | 21 400                 | 19 010 | 750       | 706   | 9 800   | 10 500 | 20,8                      | 18,9        |
| WEV/221/02/8 | 18 200               | 22 500 | 28 890                 | 24 725 | 1 010     | 975   | 11 800  | 12 800 | 25,1                      | 22,6        |

## Rozměry v mm

| Typ          | Rif. | A   | B   | C     | D   | E     | øF   | G    | H    | I       | L     | M   | N     | O     |
|--------------|------|-----|-----|-------|-----|-------|------|------|------|---------|-------|-----|-------|-------|
| WEV/20/02/8  | 2    | 105 | 140 | 340   | 167 | 32    | 13   | 28,5 | 30   | 111     | 204   | 163 | 80    | 96    |
| WEV/30/02/8  | 2    | 120 | 170 | 376   | 205 | 38    | 17   | 40   | 33   | 111     | 214,5 | 191 | 91,5  | 97    |
| WEV/35/02/8  | 2    | 120 | 170 | 436   | 210 | 60    | 17   | 22   | 47,5 | 111     | 243   | 223 | 115,5 | 118   |
| WEV/38/02/8  | 2    | 140 | 190 | 486   | 230 | 72    | 17   | 25   | 45   | 111     | 257   | 241 | 124,5 | 127   |
| WEV/40/02/8  | 2    | 140 | 190 | 557   | 230 | 72    | 17   | 25   | 45   | 111     | 257   | 241 | 124,5 | 162,5 |
| WEV/50/02/8  | 2    | 155 | 225 | 600   | 275 | 79,5  | 22   | 28   | 55   | 111     | 283   | 271 | 140   | 168,5 |
| WEV/53/02/8  | 2    | 155 | 225 | 600   | 275 | 79,5  | 22   | 28   | 55   | 111     | 283   | 271 | 140   | 168,5 |
| WEV/55/02/8  | 2    | 155 | 255 | 658   | 310 | 103,5 | 23,5 | 30   | 60   | 155     | 335   | 309 | 160   | 174   |
| WEV/60/02/8  | 2    | 180 | 280 | 730   | 340 | 106   | 26   | 30   | 65   | 155     | 369   | 336 | 173   | 200   |
| WEV/62/02/8  | 2    | 180 | 280 | 790   | 340 | 106   | 26   | 30   | 65   | 155     | 369   | 336 | 173   | 230   |
| WEV/65/02/8  | 2    | 200 | 320 | 736   | 390 | 111   | 28   | 32   | 75   | 155     | 381   | 384 | 189   | 188   |
| WEV/67/02/8  | 2    | 200 | 320 | 836   | 390 | 111   | 28   | 32   | 75   | 155     | 381   | 384 | 189   | 238   |
| WEV/71/02/8  | 2    | 200 | 320 | 854   | 392 | 111   | 28   | 35   | 75   | 155     | 403   | 402 | 199,5 | 247   |
| WEV/81/02/8  | 3    | 125 | 380 | 1 002 | 460 | 70    | 39   | 35   | 95   | 170     | 434,5 | 439 | 215   | 300   |
| WEV/141/02/8 | 4    | 140 | 480 | 1 040 | 570 | 90    | 45   | 41   | 135  | 170     | 537   | 538 | 268   | 240   |
| WEV/171/02/8 | 4    | 140 | 480 | 1 120 | 570 | 90    | 45   | 41   | 135  | 170     | 537   | 538 | 268   | 280   |
| WEV/221/02/8 | 4    | 140 | 520 | 1 150 | 610 | 90    | 45   | 38   | 145  | 250x210 | 612   | 594 | 297   | 298   |



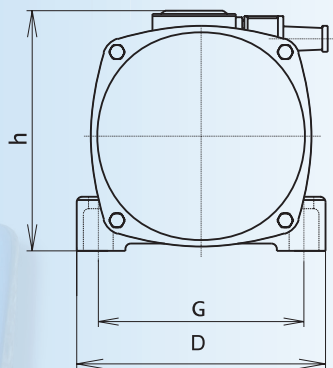
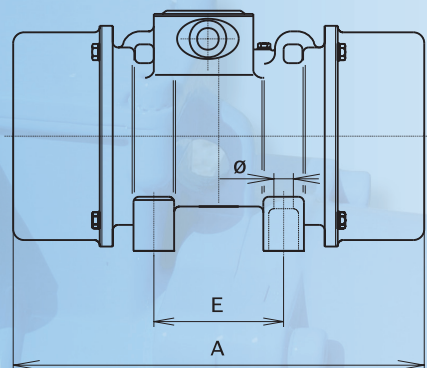
Ref. 4

## PŘÍLOŽNÉ VIBRÁTORY ŘADY „VO + VA“

| Typ vibrátoru<br>Type | otáčky<br>ot./min<br>RPM | prac. moment<br>kgmm<br>static torque | odstředivá síla<br>N<br>centrifug. force | výkon<br>W<br>output | max. amplituda<br>mm | hmotnost<br>kg<br>weight | obrys / frame<br>mm |     |     | uchycení /<br>attachment<br>mm |     |    |
|-----------------------|--------------------------|---------------------------------------|------------------------------------------|----------------------|----------------------|--------------------------|---------------------|-----|-----|--------------------------------|-----|----|
|                       |                          |                                       |                                          |                      |                      |                          | A                   | D   | h   | E                              | G   | ø  |
| VF 12*                | 5945                     | 24                                    | 9117                                     | 180                  | 0,2                  | 12,5                     | 230                 | 170 | 169 | 70                             | 140 | 14 |
| VF 22*                | 6000                     | 22,4                                  | 8850                                     | 370                  | 0,2                  | 30                       | 320                 | 230 | 222 | 120                            | 190 | 18 |
| VF 22*                | 9000                     | 22,4                                  | 19913                                    | 370                  | 0,2                  | 30                       | 320                 | 230 | 222 | 120                            | 190 | 18 |
| VO 12                 | 2880                     | 27                                    | 2500                                     | 180                  | 1,1                  | 12,5                     | 230                 | 170 | 169 | 70                             | 140 | 14 |
| VO 22                 | 2890                     | 70                                    | 6410                                     | 370                  | 1,1                  | 25,5                     | 285                 | 230 | 222 | 120                            | 190 | 18 |
| VO 32                 | 2900                     | 140                                   | 12910                                    | 750                  | 1,1                  | 47                       | 350                 | 256 | 248 | 150                            | 210 | 22 |
| VA 32                 | 2945                     | 200                                   | 19020                                    | 2000                 | 1,1                  | 65                       | 390                 | 330 | 263 | 240                            | 280 | 22 |
| VO 14                 | 1380                     | 60                                    | 1300                                     | 120                  | 4,1                  | 15,2                     | 275                 | 170 | 169 | 70                             | 140 | 14 |
| VO 24                 | 1405                     | 225                                   | 4870                                     | 370                  | 4,1                  | 30                       | 320                 | 230 | 222 | 120                            | 190 | 18 |
| VO 34                 | 1420                     | 450                                   | 9950                                     | 750                  | 4,1                  | 54                       | 390                 | 256 | 248 | 150                            | 210 | 22 |
| VA 34                 | 1430                     | 750                                   | 16820                                    | 2000                 | 4,1                  | 81                       | 420                 | 330 | 290 | 240                            | 280 | 22 |
| VA 44                 | 1470                     | 1000                                  | 23695                                    | 2700                 | 4,1                  | 101                      | 480                 | 355 | 290 | 270                            | 300 | 27 |
| VA 54                 | 1455                     | 1750                                  | 40630                                    | 3500                 | 4,1                  | 152                      | 550                 | 420 | 336 | 325                            | 350 | 35 |
| VA 64                 | 1455                     | 3200                                  | 74290                                    | 4500                 | 4,1                  | 255                      | 650                 | 490 | 375 | 380                            | 420 | 35 |
| VA 74                 | 1460                     | 4250                                  | 99345                                    | 6500                 | 4,1                  | 349                      | 710                 | 600 | 465 | 460                            | 520 | 40 |
| VO 16                 | 925                      | 60                                    | 635                                      | 190                  | 10                   | 15,2                     | 275                 | 170 | 169 | 70                             | 140 | 14 |
| VO 26                 | 940                      | 450                                   | 4360                                     | 250                  | 10                   | 37                       | 380                 | 230 | 222 | 120                            | 190 | 18 |
| VO 36                 | 950                      | 900                                   | 8905                                     | 550                  | 10                   | 65                       | 460                 | 256 | 248 | 150                            | 210 | 22 |
| VA 36                 | 960                      | 1600                                  | 16170                                    | 1100                 | 10                   | 96                       | 510                 | 330 | 290 | 240                            | 280 | 22 |
| VA 46                 | 970                      | 2150                                  | 22185                                    | 2000                 | 10                   | 127                      | 610                 | 355 | 290 | 270                            | 300 | 27 |
| VA 56                 | 970                      | 3700                                  | 38175                                    | 2700                 | 10                   | 189                      | 670                 | 420 | 336 | 325                            | 350 | 35 |
| VA 66                 | 965                      | 7000                                  | 71485                                    | 4500                 | 10                   | 324                      | 820                 | 490 | 375 | 380                            | 420 | 35 |
| VA 76                 | 980                      | 10000                                 | 105320                                   | 6500                 | 10                   | 438                      | 830                 | 600 | 465 | 460                            | 520 | 40 |
| VO 28                 | 746                      | 693                                   | 3950                                     | 250                  | 14                   | 46                       | 440                 | 230 | 228 | 120                            | 190 | 18 |
| VA 78                 | 730                      | 17000                                 | 99345                                    | 6500                 | 14                   | 503                      | 970                 | 600 | 465 | 460                            | 520 | 40 |

Hodnoty jsou uvedeny pro 230/400 V, 50 Hz, ostatní napětí na objednávku.

\* Hodnoty pro 100/150 Hz.

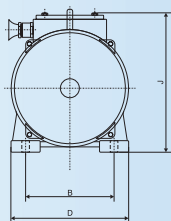
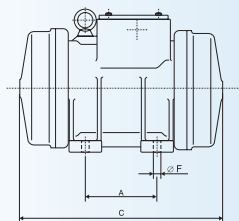




## PŘÍLOŽNÉ VIBRÁTORY ŘADY VV

| TECHNICKÉ ÚDAJE / TECHNICAL SPECIFICATION |                          |       |                                          |       |                                  |                      |                          |       | ROZMĚROVÉ ÚDAJE / DIMENSIONS |     |     |                              |     |      |  |
|-------------------------------------------|--------------------------|-------|------------------------------------------|-------|----------------------------------|----------------------|--------------------------|-------|------------------------------|-----|-----|------------------------------|-----|------|--|
| typ<br>type                               | otáčky<br>speed<br>min-1 |       | pracovní moment<br>static moment<br>kgmm |       | odstř. síla<br>centr. force<br>N | výkon<br>output<br>W | hmotnost<br>weight<br>kg |       | obrys<br>frame<br>mm         |     |     | uchycení<br>attachment<br>mm |     |      |  |
|                                           | 50 Hz                    | 60 Hz | 50 Hz                                    | 60 Hz |                                  |                      | 50 Hz                    | 60 Hz | C                            | D   | J   | A                            | B   | Ø F  |  |
| VV 03 NX                                  | 3000                     | 3600  | 13                                       | 10    | 1300                             | 120                  | 6                        | 5     | 244                          | 125 | 146 | 62-74                        | 106 | 9×15 |  |
| VV 05 NX                                  | 3000                     | 3600  | 22                                       | 16    | 2200                             | 120                  | 6                        | 5,3   | 244                          | 125 | 146 | 62-74                        | 106 | 9×15 |  |
| VV 10 NX                                  | 3000                     | 3600  | 32                                       | 22    | 3200                             | 275                  | 16                       | 15    | 258                          | 155 | 184 | 90                           | 125 | 8,5  |  |
| VV 15 NX                                  | 3000                     | 3600  | 54                                       | 37    | 5400                             | 500                  | 22                       | 21    | 309                          | 170 | 206 | 105                          | 140 | 10,5 |  |
| VV 20 NX                                  | 3000                     | 3600  | 90                                       | 62    | 9000                             | 500                  | 22                       | 22    | 309                          | 170 | 206 | 105                          | 140 | 10,5 |  |
| VV 30 NX                                  | 3000                     | 3600  | 160                                      | 111   | 16000                            | 900                  | 34                       | 33    | 356                          | 210 | 231 | 120                          | 170 | 14,5 |  |
| VV 40 NX                                  | 3000                     | 3600  | 240                                      | 167   | 24000                            | 2200                 | 50                       | 48    | 448                          | 230 | 258 | 140                          | 190 | 16,5 |  |
| VV 50 NX                                  | 3000                     | 3600  | 410                                      | 285   | 41000                            | 2600                 | 85                       | 83    | 524                          | 275 | 300 | 155                          | 225 | 20   |  |
| VV 03 BF                                  | 1500                     | 1800  | 13                                       | 16    | 350                              | 90                   | 6                        | 5,3   | 244                          | 125 | 146 | 62-74                        | 106 | 9×15 |  |
| VV 05 BF                                  | 1500                     | 1800  | 30                                       | 23    | 800                              | 90                   | 6,5                      | 5,6   | 244                          | 125 | 146 | 62-74                        | 106 | 9×15 |  |
| VV 10 BF                                  | 1500                     | 1800  | 69                                       | 47    | 1700                             | 100                  | 16                       | 15    | 258                          | 155 | 184 | 90                           | 125 | 8,5  |  |
| VV 20 BF                                  | 1500                     | 1800  | 146                                      | 100   | 3600                             | 220                  | 24                       | 23    | 309                          | 170 | 206 | 105                          | 140 | 10,5 |  |
| VV 30 BF                                  | 1500                     | 1800  | 308                                      | 211   | 7600                             | 470                  | 37                       | 35    | 356                          | 210 | 231 | 120                          | 170 | 14,5 |  |
| VV 40 BF                                  | 1500                     | 1800  | 607                                      | 417   | 15000                            | 750                  | 55                       | 52    | 448                          | 230 | 258 | 140                          | 190 | 16,5 |  |
| VV 50 BF                                  | 1500                     | 1800  | 1130                                     | 778   | 28000                            | 1720                 | 93                       | 88    | 524                          | 275 | 300 | 155                          | 225 | 20   |  |
| VV 60 BF                                  | 1500                     | 1800  | 2025                                     | 1390  | 50000                            | 3070                 | 167                      | 160   | 608                          | 340 | 341 | 180                          | 280 | 24,5 |  |
| VV 70 BF                                  | 1500                     | 1800  | 3300                                     | 2290  | 82500                            | 5070                 | 300                      | 290   | 778                          | 420 | 396 | 220                          | 340 | 27,5 |  |
| VV 40 BB                                  | 1000                     | 1200  | 909                                      | 625   | 10000                            | 550                  | 61                       | 56    | 448                          | 230 | 258 | 140                          | 190 | 16,5 |  |
| VV 50 BB                                  | 1000                     | 1200  | 1636                                     | 1130  | 18000                            | 1100                 | 102                      | 95    | 524                          | 275 | 300 | 155                          | 225 | 20   |  |
| VV 60 BB                                  | 1000                     | 1200  | 3000                                     | 2060  | 33000                            | 2030                 | 178                      | 168   | 608                          | 340 | 341 | 180                          | 280 | 24,5 |  |
| VV 70 BB                                  | 1000                     | 1200  | 5000                                     | 3440  | 55000                            | 3380                 | 320                      | 305   | 778                          | 420 | 396 | 220                          | 340 | 27,5 |  |
| VV 80 BB                                  | 1000                     | 1200  | 9100                                     | -     | 99000                            | 6080                 | 615                      | -     | 980                          | 500 | 498 | 134×3                        | 420 | 27,5 |  |
| VV 120 BB                                 | 1000                     | 1200  | 12000                                    | 8250  | 132000                           | 7500                 | 650                      | 623   | 980                          | 500 | 498 | 134×3                        | 420 | 31   |  |

Hodnoty jsou uvedeny pro 230/400 V, 50 Hz, ostatní napětí na objednávku.



# ELEKTRICKÉ MIKRO-VIBRÁTORY

| Type<br>Type | min. <sup>-1</sup><br>rpm |       | Odstrředivá síla<br>Centrifugal force |       | Výkon<br>Power | Max. proud<br>Max input current |                |                | Váha<br>Weight |
|--------------|---------------------------|-------|---------------------------------------|-------|----------------|---------------------------------|----------------|----------------|----------------|
| WM3/4        | 3.000                     | 3.600 | 4 kg                                  | 6 kg  | 24 W           | -                               | 0,13 A         | 0,30 A         | 0,92 kg        |
| WM3/20       | 3.000                     | 3.600 | 20 kg                                 | 29 kg | 35 W           | 0,15 A                          | 0,17 A         | 0,42 A         | 1,97 kg        |
| WM3/45       | 3.000                     | 3.600 | 45 kg                                 | 65 kg | 45 W           | 0,16 A                          | 0,20 A         | 0,46 A         | 2,20 kg        |
|              | 50 Hz                     | 60 Hz | 50 Hz                                 | 60 Hz |                | 380/460 V<br>(3ph)              | 220 V<br>(1ph) | 115 V<br>(1ph) |                |

| Type<br>Type | A<br>mm | B<br>mm | C<br>mm | D<br>mm | D1<br>mm | E<br>mm | E1<br>mm | F<br>mm | G<br>mm | G1<br>mm | Počet<br>děr<br>N.holes | H<br>mm | I<br>mm | L<br>mm | M<br>mm | N<br>mm | Vývodka<br>Cable<br>gland |
|--------------|---------|---------|---------|---------|----------|---------|----------|---------|---------|----------|-------------------------|---------|---------|---------|---------|---------|---------------------------|
| WM3/4        | 113     | 62,5    | 90      | 25-40   | -        | 75      | -        | 9       | 5,5     | -        | 4                       | 32      | 20      | 56,6    | 59      | 61      | PG7                       |
| WM3/20       | 154     | 74,5    | 110     | 25-40   | 60       | 92      | 85       | 9       | 6,5     | ø 6,5    | 8                       | 38      | 27,5    | 68,6    | 83      | 73      | 3/8" GAS                  |
| WM3/45       | 169     | 74,5    | 110     | 25-40   | 60       | 92      | 85       | 9       | 6,5     | ø 6,5    | 8                       | 38      | 35      | 68,6    | 83      | 73      | 3/8" GAS                  |

Hodnoty jsou uvedeny pro 230/400 V, 50 Hz, ostatní napětí na objednávku.



# PNEUMATICKÉ VIBRÁTORY VT

Klasifikace ATEX: II 2G c T6

## Podmínky použití:

Pneumatické turbínové vibrátory řady VT jsou provozní prostředky kategorie 2 a podle EN 1127-1, příloha B, smějí být použity v zóně 1 a zóně 2 a rovněž v zóně skupin plynů II, které jsou kvůli hořlavým látkám v rozsahu teplotních tříd T1 až T5 ohroženy nebezpečím výbuchu.

Přípustné teploty okolního prostředí v zónách ohrožených nebezpečím výbuchu: v rozsahu od -20 °C do +40 °C.

Přípustná provozní média: čistý stlačený vzduch bez obsahu oleje, nebo dusík do tlaku max. 6 barů a teploty max. 40 °C.

# PNEUMATICKÉ VIBRÁTORY VK, VR

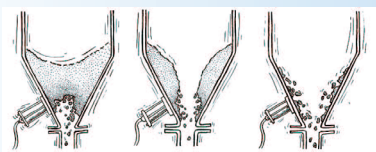
Klasifikace ATEX: Ex II 3D 85 °C (T6)X

## Podmínky použití:

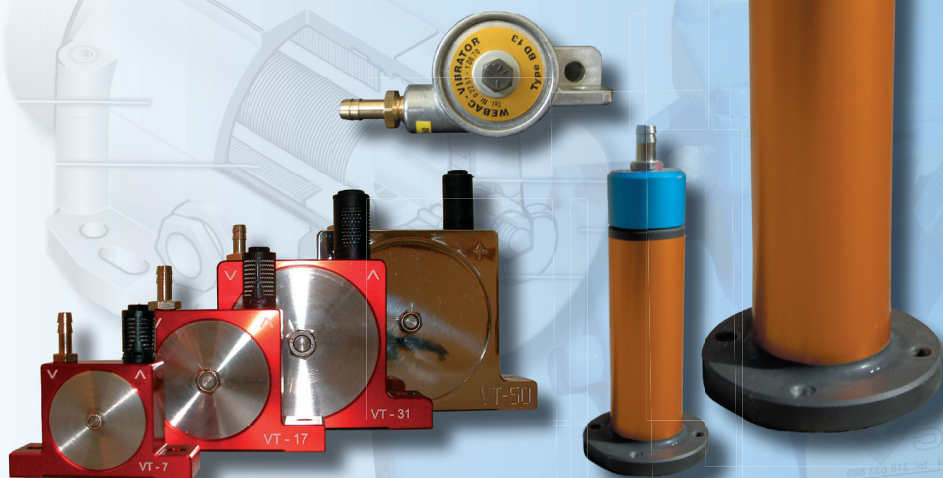
Pneumatické kuličkové vibrátory série VK, VR jsou provozní prostředky kategorie 2 a smí být použity v zóně 22. Je nutné zajistit, aby prachy nacházející se v okolí měly minimální teplotu samozápalu nad 85 °C.

Povolený rozsah teploty okolí v explozivních zónách je 0 °C až +40 °C.

Povolená provozní média: čistý, lehce olejovaný stlačený vzduch nebo dusík o max. 6 bar a 40 °C.



*Dodáváme i pneumatické oklepávací zařízení  
K 40 - K 125.*



# PNEUMATICKÉ KULIČKOVÉ VIBRÁTORY

Hodnoty zjištěné při 6 barech:



| TYP    | frekvence 1/min. | odstředivá síla N | spotřeba vzduchu l/min. | hmotnost kg |
|--------|------------------|-------------------|-------------------------|-------------|
| BD 10  | 23'000           | 290               | 210                     | 0,15        |
| BD 13  | 20'500           | 570               | 260                     | 0,25        |
| BD 16  | 17'500           | 800               | 300                     | 0,35        |
| UCV 19 | 21'000           | 2'000             | 360                     | 0,80        |
| UCV 25 | 12'500           | 2'120             | 550                     | 1,30        |
| UCV 32 | 8'250            | 2'160             | 660                     | 2,70        |
| UCV 38 | 6'250            | 2'350             | 820                     | 4,00        |
| UCV 44 | 5'600            | 3'560             | 990                     | 6,00        |
| UCV 51 | 4'800            | 4'180             | 1170                    | 7,60        |
| UCV 57 | 4'100            | 4'360             | 1240                    | 12,00       |

| TYP    | A mm | B mm | C mm | D mm | E mm | F mm  | G mm | H mm | I mm | J mm | K mm |
|--------|------|------|------|------|------|-------|------|------|------|------|------|
| BD 10  | 13   | 1/8" | 33   | 86   | 35   | 5/16" | 13   | 29   | 45   | 6    | 30   |
| BD 13  | 16   | 1/4" | 38   | 90   | 40   | 3/8"  | 13   | 29   | 54   | 8    | 34   |
| BD 16  | 21   | 1/4" | 40   | 102  | 46   | 3/8"  | 16   | 29   | 62   | 8    | 38   |
| UCV 19 | 83   | 36   | 133  | 100  | 10,5 | 1/4"  |      |      |      |      |      |
| UCV 25 | 99   | 47   | 161  | 125  | 13,5 | 1/4"  |      |      |      |      |      |
| UCV 32 | 106  | 55   | 165  | 130  | 13,5 | 3/8"  |      |      |      |      |      |
| UCV 38 | 125  | 62   | 200  | 150  | 17,0 | 3/8"  |      |      |      |      |      |
| UCV 44 | 143  | 70   | 220  | 180  | 17,0 | 1/2"  |      |      |      |      |      |
| UCV 51 | 154  | 79   | 220  | 180  | 17,0 | 1/2"  |      |      |      |      |      |
| UCV 57 | 170  | 86   | 255  | 200  | 17,0 | 3/4"  |      |      |      |      |      |

# PNEUMATICKÉ PÍSTOVÉ - KLADÍVKOVÉ VIBRÁTORY

Hodnoty zjištěné při 6 barech:

| TYP   | síla N | hmotnost g | frekvence 1/min | spotřeba vzduchu l/min. |
|-------|--------|------------|-----------------|-------------------------|
| VP 1  | 65     | 130        | 7600            | 11                      |
| VP 2  | 150    | 170        | 5550            | 12                      |
| VP 3  | 210    | 205        | 4100            | 11                      |
| VP 4  | 490    | 375        | 6600            | 33                      |
| VP 6  | 650    | 490        | 4700            | 35                      |
| VP 8  | 730    | 600        | 3800            | 32                      |
| VP 12 | 1475   | 780        | 6200            | 61                      |
| VP 14 | 1540   | 1100       | 3200            | 64                      |
| VP 16 | 1680   | 1400       | 2500            | 58                      |



| TYP  | A mm | B mm | C mm | D mm | E mm | F mm | G mm |
|------|------|------|------|------|------|------|------|
| VP1  | 95   | 45   | 20   | 34   | 5,5  | 1/8" | 7    |
| VP2  | 115  | 45   | 20   | 34   | 5,5  | 1/8" | 7    |
| VP3  | 135  | 45   | 20   | 34   | 5,5  | 1/8" | 7    |
| VP4  | 125  | 60   | 30   | 48   | 6,5  | 1/8" | 8    |
| VP6  | 155  | 60   | 30   | 48   | 6,5  | 1/8" | 8    |
| VP8  | 185  | 60   | 30   | 48   | 6,5  | 1/8" | 8    |
| VP12 | 130  | 80   | 45   | 65   | 6,5  | 1/4" | 10   |
| VP14 | 170  | 80   | 45   | 65   | 6,5  | 1/4" | 10   |
| VP16 | 210  | 80   | 45   | 65   | 6,5  | 1/4" | 10   |

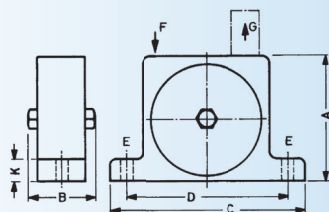


# PNEUMATICKÉ TURBÍNOVÉ, KULIČKOVÉ A VÁLEČKOVÉ VIBRÁTORY

**Hodnoty zjištěné při 6 barech:**

| TYP         | A<br>mm | B<br>mm | C<br>mm | D<br>mm | E<br>mm | F<br>mm | G<br>mm | K<br>mm |
|-------------|---------|---------|---------|---------|---------|---------|---------|---------|
| VT 7-9      |         |         |         |         |         |         |         |         |
| VR 17-29    | 55      | 36      | 90      | 68/73   | 7       | 1/8"    | 1/8"    | 12      |
| VK 10-14    |         |         |         |         |         |         |         |         |
| VT 13-16-17 |         |         |         |         |         |         |         |         |
| VR 47-78    | 80      | 49      | 128     | 104     | 9       | 1/4"    | 1/4"    | 16      |
| VK 16-22    |         |         |         |         |         |         |         |         |
| VT 24-31    |         |         |         |         |         |         |         |         |
| VK 26-30    | 110     | 63      | 170     | 130/140 | 11      | 3/8"    | 3/8"    | 21      |
| VR 97       |         |         |         |         |         |         |         |         |
| VT 50       |         |         |         |         |         |         |         |         |
| VK 40       | 140     | 74      | 200     | 170     | 11      | 3/8"    | 1/2"    | 25      |

| TYP   | frekvence 1/min. | odstředivá síla N | spotřeba vzduchu<br>l/min. | hmotnost kg |
|-------|------------------|-------------------|----------------------------|-------------|
| VT 7  | 16 500           | 715               | 85                         | 0,310       |
| VT 9  | 15 500           | 950               | 105                        | 0,310       |
| VT 13 | 11 000           | 1 310             | 180                        | 0,750       |
| VT 16 | 9 000            | 1 650             | 225                        | 0,770       |
| VT 17 | 8 500            | 1 960             | 235                        | 0,780       |
| VT 24 | 8 000            | 2 470             | 325                        | 2,000       |
| VT 31 | 7 500            | 3 130             | 350                        | 2,100       |
| VT 50 | 5 000            | 5 080             | 550                        | 4,200       |
| VR 17 | 40 000           | 1 690             | 200                        | 0,360       |
| VR 29 | 38 000           | 2 910             | 250                        | 0,410       |
| VR 47 | 29 000           | 4 750             | 325                        | 0,850       |
| VR 78 | 26 000           | 7 850             | 550                        | 0,900       |
| VR 97 | 18 000           | 9 730             | 850                        | 2,480       |
| VK 10 | 30 000           | 520               | 175                        | 0,310       |
| VK 14 | 25 000           | 960               | 200                        | 0,310       |
| VK 16 | 20 000           | 1 260             | 225                        | 0,730       |
| VK 22 | 15 500           | 2 160             | 275                        | 0,750       |
| VK 26 | 14 200           | 4 370             | 380                        | 1,920       |
| VK 30 | 13 000           | 5 250             | 500                        | 1,960       |
| VK 40 | 9 900            | 8 625             | 745                        | 3,980       |



## SÉRIE VMD – MECHANICKÉ OSCILÁTORY

Typová řada VMD mimořádně splňuje požadavky na vysokou odstředivou sílu, při snížených rozměrech a hmotnosti, které jsou většinou požadovány u velkých aplikací.

Nízká hluchnost a nízká povrchová teplota spolu s výborným olejovým těsněním, dělá z VMD budiče velice spolehlivý výrobek ve výkonu a životnosti.

### Technické parametry:

Statický moment od 4130 do 73440 Kgmm.

Statický moment může být upraven přidáním železných nebo olověných nevývažků.

Odstředivá síla od 98 kN do 453 kN.

Venkovní teplota od -40 °C do +70 °C.

Namontování VMD budiče ve všech směrech, vždy s horizontální hřídelí.

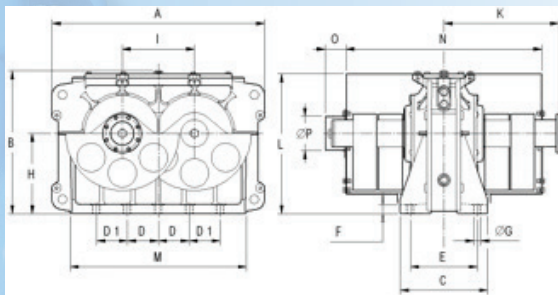
Plášť z litiny s kuličkovým grafitem.

Mazání ozubení a ložisek ponořením a olejovým sprejem.

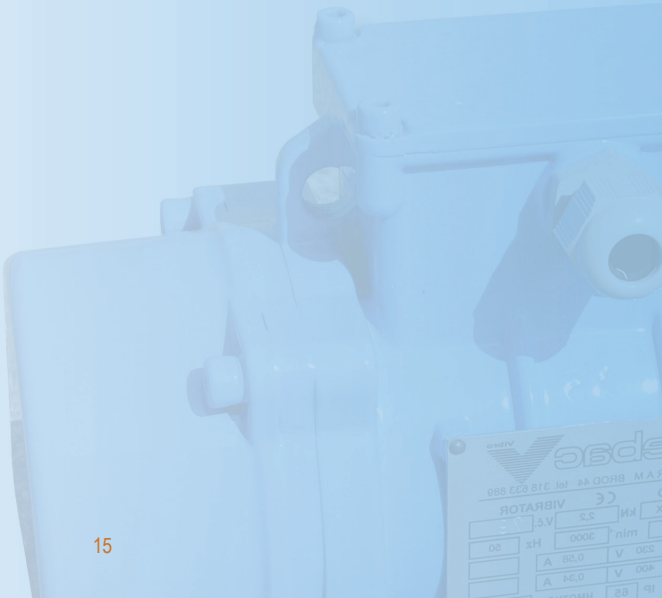
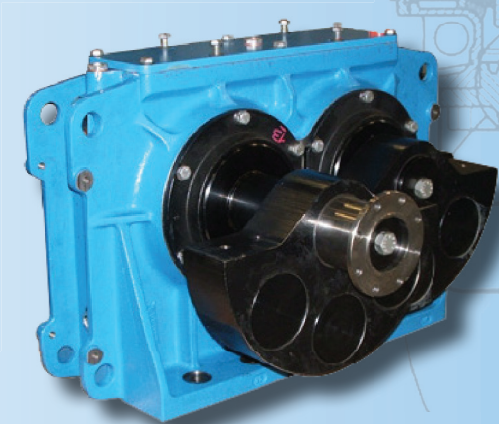
Sférická válečková ložiska. Životnost ložisek přes 40000 pracovních hodin při vysokém zatížení.

VMD budič je dodáván se spojovací přírubou (DIN norma) pro řídicí hřídel, nevývažky, kryty, navíc nevývažky pro požadované nastavení. Kompletní řídicí systém je k dispozici na požádání s různým systémem připojovacích děr.

| Grand. size | Code Code | Tipo Type   | Configurazione mase Weight setting | Momento statico Static Moment kgmm | Max RPM      | Forza Centrifuga Centrifugal Force kN | Peso weight kg | Potenza motore Azionamento Motor rating kW |
|-------------|-----------|-------------|------------------------------------|------------------------------------|--------------|---------------------------------------|----------------|--------------------------------------------|
| 280         | V010010   | VMD 8000/6  | Min<br>Max                         | 4130<br>8065                       | 1470<br>1100 | 98<br>107                             | 298<br>340     | 5,5                                        |
| 295         | V010020   | VMD 14000/6 | Min<br>Max                         | 7660<br>13975                      | 1385<br>1000 | 145<br>153                            | 410<br>470     | 7,5                                        |
| 297         | V010030   | VMD 18000/6 | Min<br>Max                         | 8225<br>17980                      | 1435<br>1000 | 185<br>197                            | 563<br>649     | 11                                         |
|             | V010040   | VMD 23000/6 | Min<br>Max                         | 10410<br>22885                     | 1410<br>1000 | 227<br>252                            | 631<br>741     | 15                                         |
|             | V010050   | VMD 27000/8 | Min<br>Max                         | 12065<br>26635                     | 1115<br>750  | 164<br>164                            | 629<br>758     | 11                                         |
| 310         | V010060   | VMD 33000/6 | Min<br>Max                         | 17650<br>32583                     | 1220<br>935  | 288<br>312                            | 895<br>1005    | 18,5                                       |
|             | V010070   | VMD 38000/6 | Min<br>Max                         | 20448<br>37881                     | 1153<br>882  | 298<br>323                            | 949<br>1078    | 18,5                                       |
|             | V010080   | VMD 42000/8 | Min<br>Max                         | 20060<br>42060                     | 1087<br>750  | 260<br>260                            | 949<br>1116    | 18,5                                       |
| 320         | V010090   | VMD 74000/8 | 220                                | 43580<br>73440                     | 940<br>750   | 423<br>453                            | 1520<br>1703   | 30                                         |



| Tipo<br>Type | Caratteristiche dimensionali / Dimensional features<br>mm |       |     |       |       |     |    |        |    |     |     |       |       |     |      |      |     |
|--------------|-----------------------------------------------------------|-------|-----|-------|-------|-----|----|--------|----|-----|-----|-------|-------|-----|------|------|-----|
|              | A                                                         | B     | C   | D     | D1    | E   | ØG | N°     | F  | H   | I   | K     | L     | M   | N    | O    | ØP  |
| VMD 8000/6   | 700                                                       | 453,5 | 260 | 1x455 | -     | 156 | 32 | 4xM30  | 30 | 240 | 232 | 330   | 442,5 | 575 | 550  | 69   | 98  |
| VMD 14000/6  | 760                                                       | 508,5 | 270 | 1x280 | 2x120 | 200 | 28 | 8xM27  | 30 | 280 | 256 | 388   | 497,5 | 640 | 665  | 69,5 | 118 |
| VMD 18000/6  | 825                                                       | 551,5 | 340 | 4x120 | -     | 260 | 26 | 10xM24 | 35 | 310 | 280 | 407   | 540,5 | 685 | 685  | 80,5 | 133 |
| VMD 23000/6  | 825                                                       | 551,5 | 340 | 4x120 | -     | 260 | 26 | 10xM24 | 35 | 310 | 280 | 446   | 540,5 | 685 | 760  | 80,5 | 133 |
| VMD 27000/8  | 825                                                       | 551,5 | 340 | 4x120 | -     | 260 | 26 | 10xM24 | 35 | 310 | 280 | 476   | 540,5 | 685 | 820  | 80,5 | 133 |
| VMD 33000/6  | 925                                                       | 629   | 380 | 5x120 | -     | 300 | 32 | 12xM30 | 35 | 350 | 320 | 476,5 | 618   | 770 | 815  | 83   | 143 |
| VMD 38000/6  | 925                                                       | 629   | 380 | 5x120 | -     | 300 | 32 | 12xM30 | 35 | 350 | 320 | 510,5 | 618   | 770 | 885  | 83   | 143 |
| VMD 42000/8  | 925                                                       | 629   | 380 | 5x120 | -     | 300 | 32 | 12xM30 | 35 | 350 | 320 | 524,5 | 618   | 770 | 915  | 83   | 143 |
| VMD 74000/8  | 1070                                                      | 708   | 470 | 4x120 | 2x150 | 390 | 32 | 14xM30 | 35 | 390 | 370 | 592   | 698,5 | 920 | 1045 | 85   | 161 |



# ELEKTRICKÉ VIBRÁTORY SÉRIE VV-E DO VÝBUŠNÉHO PROSTŘEDÍ

## 2 POLI - 2 POLES - 3000/3600 RPM

**MOTORY  
DO VÝBUŠNÉHO  
PROSTŘEDÍ  
(ATEX CERTIFIKÁT)**

| Cod.<br>Code | Tipo<br>Type | Grand.<br>Size |                       |                       | Potenza MAX<br>INPUT POWER<br>(W) |             | Potenza resa<br>Power Rating<br>(W) |            | Corrente Max<br>assorbita (A)<br>Max. Input<br>Current |                | tE<br>(s) | IA/IN        |
|--------------|--------------|----------------|-----------------------|-----------------------|-----------------------------------|-------------|-------------------------------------|------------|--------------------------------------------------------|----------------|-----------|--------------|
|              |              |                | Temp.<br>Class<br>(G) | Temp.<br>Class<br>(D) | 50 Hz                             | 60 Hz       | 50 Hz                               | 60 Hz      | 400 V<br>50 Hz                                         | 460 V<br>60 Hz |           |              |
| V2E21        | VV03N/-E*    | BA             | T3<br>T4              | 120 °C                | 180<br>105                        | 180<br>105  | 120<br>80                           | 120<br>80  | 0,33<br>0,26                                           | 0,30<br>0,23   | 30<br>20  | 2,68<br>3,48 |
| V2E22        | VV05N/-E*    | BA             | T3                    | 120 °C                | 180                               | 180         | 120                                 | 120        | 0,33                                                   | 0,30           | 30        | 2,68         |
| V2E23        | VV10N/2-E    | CA             | T3<br>T4              | 120 °C                | 260<br>230                        | 270<br>230  | 210<br>172                          | 210<br>172 | 0,57<br>0,48                                           | 0,50<br>0,41   | 18<br>12  | 3,5<br>4,2   |
| V2E17        | VV15N/2-E    | DA             | T3<br>T4              | 120 °C                | 500<br>350                        | 500<br>360  | 300<br>210                          | 300<br>210 | 0,76<br>0,57                                           | 0,67<br>0,50   | 12<br>8   | 4,2<br>5,6   |
| V2E20        | VV25N/2-E    | EA             | T3<br>T4              | 120 °C                | 550<br>390                        | 570<br>400  | 405<br>290                          | 405<br>290 | 0,95<br>0,72                                           | 0,83<br>0,64   | 12<br>8   | 4,2<br>5,52  |
| V2E12        | VV35N/2-E    | GA             | T3<br>T4              | 120 °C                | 550<br>460                        | 600<br>500  | 350<br>290                          | 350<br>290 | 0,86<br>0,76                                           | 0,75<br>0,67   | 15<br>11  | 3,88<br>4,37 |
| V2E06        | VV38N/2-E    | IB             | T3<br>T4              | 200 °C                | 1010<br>830                       | 1070<br>910 | 720<br>660                          | 720<br>660 | 1,62<br>1,43                                           | 1,40<br>1,25   | 6<br>6    | 9,29<br>7,3  |
| V2E07        | VV40N/2-E    | IB             | T3                    | 200 °C                | 1110                              | 1150        | 960                                 | 960        | 1,90                                                   | 1,66           | 7         | 5,9          |

## 4 POLI - 4 POLES - 1500/1800 RPM

| Cod.<br>Code | Tipo<br>Type | Grand.<br>Size |                       |                       | Potenza MAX<br>INPUT POWER<br>(W) |              | Potenza resa<br>Power Rating<br>(W) |              | Corrente Max<br>assorbita (A)<br>Max. Input<br>Current |                | tE<br>(s)  | IA/IN        |
|--------------|--------------|----------------|-----------------------|-----------------------|-----------------------------------|--------------|-------------------------------------|--------------|--------------------------------------------------------|----------------|------------|--------------|
|              |              |                | Temp.<br>Class<br>(G) | Temp.<br>Class<br>(D) | 50 Hz                             | 60 Hz        | 50 Hz                               | 60 Hz        | 400 V<br>50 Hz                                         | 460 V<br>60 Hz |            |              |
| V4E24        | VV108/4-E    | CA             | T4                    | 120 °C                | 170                               | 175          | 94                                  | 95           | 0,39                                                   | 0,40           | 28         | 2,34         |
| V4E25        | VV208/4-E    | DA             | T3<br>T4              | 120 °C                | 300<br>285                        | 320<br>270   | 200<br>180                          | 230<br>200   | 0,57<br>0,52                                           | 0,52<br>0,46   | 18<br>16   | 3,33<br>3,63 |
| V4E15        | VV21B/4-E    | DA             | T3<br>T4              | 120 °C                | 300<br>285                        | 320<br>270   | 200<br>180                          | 230<br>200   | 0,57<br>0,52                                           | 0,52<br>0,46   | 18<br>16   | 3,33<br>3,63 |
| V4E30        | VV30B/4-E    | EA             | T3<br>T4              | 120 °C                | 460<br>360                        | 500<br>420   | 310<br>240                          | 380<br>310   | 0,86<br>0,72                                           | 0,85<br>0,70   | 17<br>12   | 3,50<br>4,20 |
| V4E05        | VV35B/4-E    | GA             | T4                    | 120 °C                | 370                               | 450          | 285                                 | 340          | 0,81                                                   | 0,83           | 13         | 4            |
| V4E06        | VV38B/4-E    | HA             | T3<br>T4              | 120 °C                | 900<br>630                        | 950<br>700   | 660<br>460                          | 730<br>505   | 1,38<br>1,05                                           | 1,32<br>1,00   | 13<br>8    | 4<br>5,36    |
| V4E07        | VV40B/4-E    | IA             | T3<br>T4              | 150 °C                | 1100<br>630                       | 1150<br>700  | 730<br>480                          | 800<br>530   | 1,90<br>1,33                                           | 1,82<br>1,27   | 9<br>5,5   | 4,95<br>7    |
| V4E16        | VV41B/4-E    | IA             | T3<br>T4              | 170 °C                | 1100<br>630                       | 1150<br>700  | 730<br>480                          | 800<br>530   | 1,90<br>1,33                                           | 1,82<br>1,27   | 9<br>5,5   | 4,95<br>7    |
| V4E08        | VV50B/4-E    | LA             | T3<br>T4              | 150 °C                | 1600<br>1150                      | 1700<br>1250 | 1340<br>880                         | 1470<br>970  | 3,04<br>2,47                                           | 3,00<br>2,30   | 7<br>5,5   | 6<br>7,5     |
| V4E17        | VV53B/4-E    | LA             | T3<br>T4              | 135 °C                | 1280<br>1150                      | 1550<br>1400 | 1000<br>900                         | 1200<br>1080 | 3,14<br>2,85                                           | 3,10<br>2,85   | 5,5<br>5,5 | 7,42<br>8,16 |
| V4E09        | VV55B/4-E    | MA             | T3<br>T4              | 135 °C                | 2200<br>1850                      | 2400<br>1950 | 1780<br>1500                        | 1960<br>1650 | 3,71<br>3,14                                           | 3,50<br>3,00   | 6<br>6     | 7,17<br>8,42 |
| V4E18        | VV57B/4-E    | MA             | T3<br>T4              | 135 °C                | 2200<br>1850                      | 2400<br>1950 | 1780<br>1500                        | 1960<br>1650 | 3,71<br>3,14                                           | 3,50<br>3,00   | 6<br>6     | 7,17<br>8,42 |
| V4E10        | VV60B/4-E    | NA             | T3                    | 135 °C                | 3200                              | 3700         | 2560                                | 2800         | 5,70                                                   | 5,45           | 6          | 7            |
| V4E13        | VV81B/4-E    | QA             | T3                    | 135 °C                | 7300                              | 7900         | 5925                                | 6500         | 11,6                                                   | 11,0           | 5,5        | 7            |

## 6 POLI - 6 POLES - 1000/1200 RPM

| Cod. Code | Tipo Type | Grand. Size |                 |                 | Potenza MAX INPUT POWER (W) |              | Potenza resa Power Rating (W) |              | Corrente Max assorbita (A) Max. Input Current |              | tE (s)   | IA/IN        |
|-----------|-----------|-------------|-----------------|-----------------|-----------------------------|--------------|-------------------------------|--------------|-----------------------------------------------|--------------|----------|--------------|
|           |           |             | Temp. Class (G) | Temp. Class (D) | 50 Hz                       | 60 Hz        | 50 Hz                         | 60 Hz        | 400 V 50 Hz                                   | 460 V 60 Hz  |          |              |
| V6E29     | VV20B/6-E | DA          | T4              | 120 °C          | 185                         | 200          | 100                           | 110          | 0,48                                          | 0,45         | 25       | 2,72         |
| V6E35     | VV30B/6-E | EA          | T4              | 120 °C          | 320                         | 350          | 201                           | 221          | 0,67                                          | 0,65         | 25       | 2,81         |
| V6E02     | VV35B/6-E | GA          | T4              | 120 °C          | 350                         | 380          | 240                           | 264          | 0,71                                          | 0,68         | 26       | 2,4          |
| V6E03     | VV38B/6-E | HA          | T3<br>T4        | 135 °C          | 680<br>500                  | 730<br>540   | 448<br>290                    | 490<br>320   | 1,33<br>1,05                                  | 1,27<br>1,00 | 25<br>17 | 2,78<br>3,54 |
| V6E04     | VV40B/6-E | IA          | T3<br>T4        | 135 °C          | 750<br>480                  | 690<br>500   | 550<br>300                    | 550<br>300   | 1,57<br>1,24                                  | 1,36<br>1,00 | 19<br>13 | 3,33<br>4,23 |
| V6E17     | VV41B/6-E | IA          | T3<br>T4        | 135 °C          | 750<br>480                  | 690<br>500   | 550<br>300                    | 550<br>300   | 1,57<br>1,24                                  | 1,36<br>1,00 | 19<br>13 | 3,33<br>4,23 |
| V6E05     | VV50B/6-E | LA          | T3<br>T4        | 135 °C          | 1100<br>850                 | 1200<br>950  | 825<br>615                    | 900<br>675   | 2,09<br>1,81                                  | 2,00<br>1,70 | 15<br>10 | 3,63<br>4,73 |
| V6E06     | VV55B/6-E | MA          | T3              | 135 °C          | 1960                        | 2100         | 1580                          | 1700         | 3,90                                          | 3,70         | 8        | 5,31         |
| V6E07     | VV60B/6-E | NA          | T3<br>T4        | 135 °C          | 2200<br>2000                | 2700<br>2200 | 1575<br>1500                  | 1730<br>1650 | 4,85<br>4,28                                  | 4,60<br>4,00 | 7<br>6   | 5,88<br>6,66 |
| V6E08     | VV65B/6-E | OA          | T3              | 135 °C          | 3500                        | 3650         | 2590                          | 2700         | 6,65                                          | 6,10         | 10       | 4,64         |
| V6E12     | VV81B/6-E | QA          | T3              | 135 °C          | 5400                        | 5900         | 4500                          | 4800         | 9,98                                          | 9,10         | 7        | 6            |

**MOTORY  
DO VÝBUŠNÉHO  
PROSTŘEDÍ  
(ATEX CERTIFIKÁT)**



Ex II 2 G,D

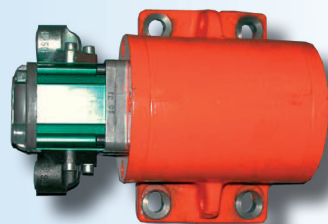
## 8 POLI - 8 POLES - 750/900 RPM

| Cod. Code | Tipo Type | Grand. Size |                 |                 | Potenza MAX INPUT POWER (W) |            | Potenza resa Power Rating (W) |            | Corrente Max assorbita (A) Max. Input Current |              | tE (s)   | IA/IN       |
|-----------|-----------|-------------|-----------------|-----------------|-----------------------------|------------|-------------------------------|------------|-----------------------------------------------|--------------|----------|-------------|
|           |           |             | Temp. Class (G) | Temp. Class (D) | 50 Hz                       | 60 Hz      | 50 Hz                         | 60 Hz      | 400 V 50 Hz                                   | 460 V 60 Hz  |          |             |
| V8E19     | VV20B/8-E | DA          | T3              | 130 °C          | 230                         | 250        | 100                           | 110        | 0,67                                          | 0,64         | 25       | 2           |
| V8E23     | VV30B/8-E | EA          | T3              | 130 °C          | 350                         | 350        | 190                           | 205        | 0,86                                          | 0,80         | 25       | 2,47        |
| V8E02     | VV35B/8-E | GA          | T4              | 120 °C          | 280                         | 300        | 135                           | 150        | 0,57                                          | 0,56         | 30       | 1,66        |
| V8E03     | VV38B/8-E | HA          | T3              | 120 °C          | 500                         | 525        | 275                           | 302        | 1,14                                          | 1,10         | 30       | 2,15        |
| V8E04     | VV40B/8-E | IA          | T3<br>T4        | 120 °C          | 600<br>450                  | 670<br>500 | 336<br>225                    | 380<br>255 | 1,33<br>1,14                                  | 1,30<br>1,10 | 30<br>25 | 2,14<br>2,5 |
| V8E05     | VV50B/8-E | LA          | T3              | 150 °C          | 950                         | 1100       | 646                           | 740        | 2,09                                          | 2,10         | 30       | 2,63        |
| V8E06     | VV55B/8-E | MA          | T3              | 135 °C          | 1500                        | 1650       | 1065                          | 1225       | 3,61                                          | 3,60         | 15       | 4,18        |
| V8E07     | VV60B/8-E | NA          | T3              | 135 °C          | 2000                        | 2200       | 1460                          | 1600       | 5,13                                          | 5,00         | 13       | 3,96        |
| V8E16     | VV62B/8-E | NA          | T3              | 135 °C          | 2630                        | 2990       | 1900                          | 2180       | 6,18                                          | 6,20         | 14       | 3,84        |
| V8E08     | VV65B/8-E | OA          | T3              | 135 °C          | 2630                        | 2990       | 1900                          | 2180       | 6,18                                          | 6,20         | 14       | 3,84        |
| V8E09     | VV67B/8-E | OA          | T3              | 135 °C          | 3520                        | 3800       | 2570                          | 2775       | 7,79                                          | 7,40         | 14       | 3,8         |
| V8E11     | VV81B/8-E | QA          | T3              | 135 °C          | 5100                        | 5800       | 4100                          | 4500       | 11,4                                          | 11,0         | 17       | 3,5         |





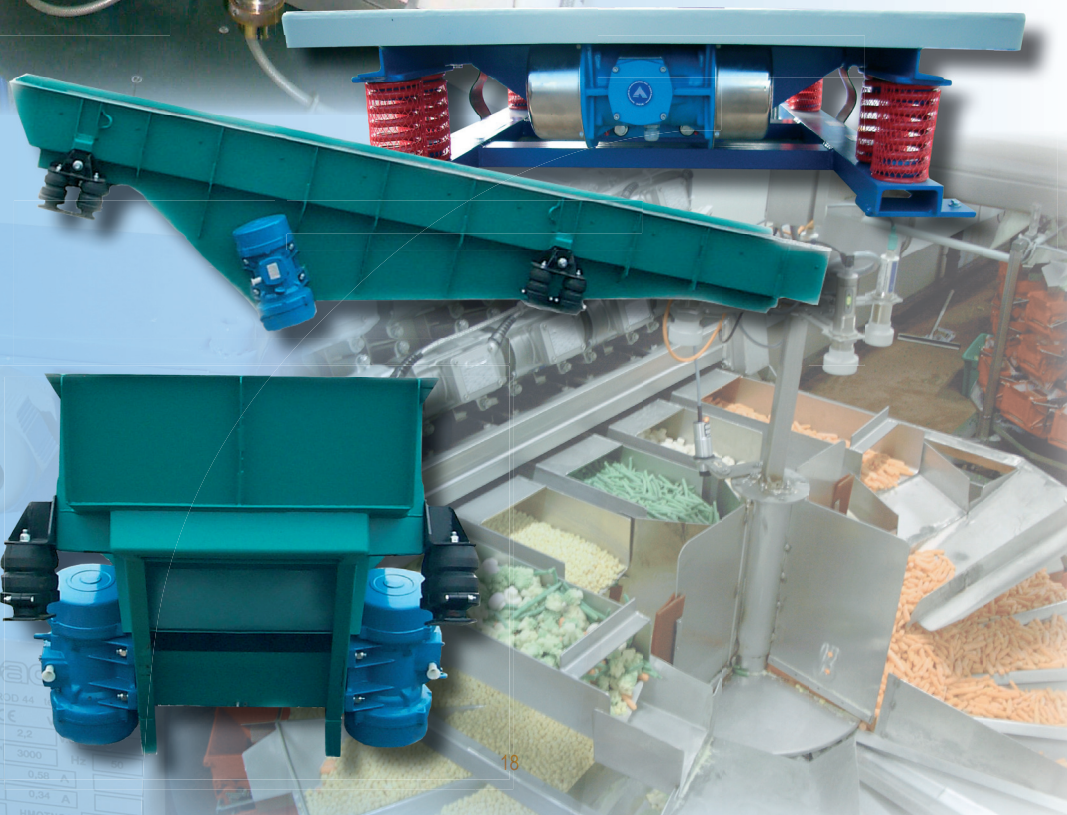
Hydraulický vibrátor.



Pneumatické vibrátory.

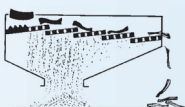


Elektrické vibrátory.

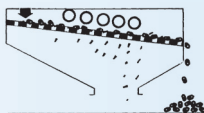


|       |         |
|-------|---------|
| RAM   | 3830 44 |
| CE    |         |
| K     | 2.2     |
| min   | 3000    |
| 200 V | 0.58 A  |
| 400 V | 0.34 A  |
| IP    | 65      |

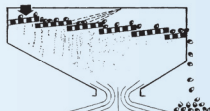
## Poznámky:



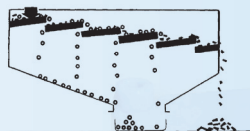
Rozfězání obalů a jejich oddělení  
od vysypaného materiálu.



Rozbití hrudek  
volně zavěšenými kruhy  
o odřídění.

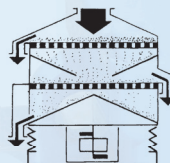


Odhlíňování oplachem.



Vytřídění tvarů.

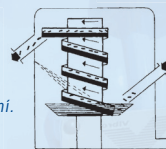
Třídění  
jemnozrnných  
materiálů.

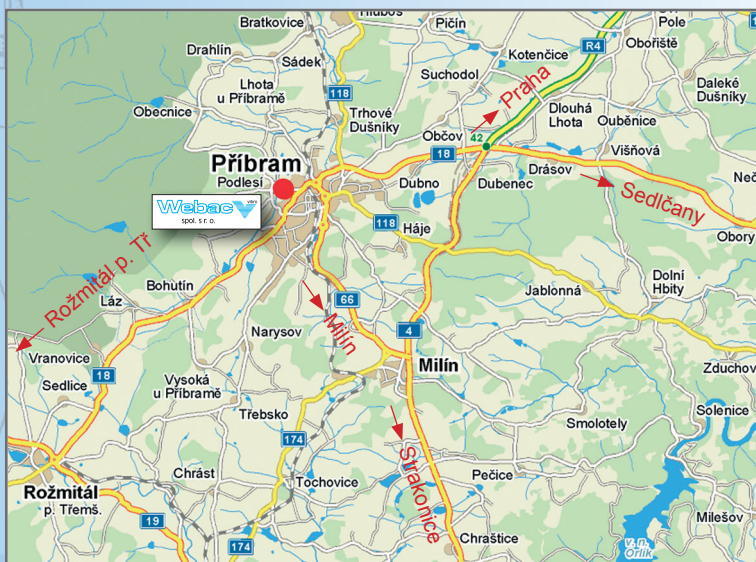


Bezztrátová  
šetná doprava.



Odmašťování, vertikální doprava a sušení.





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