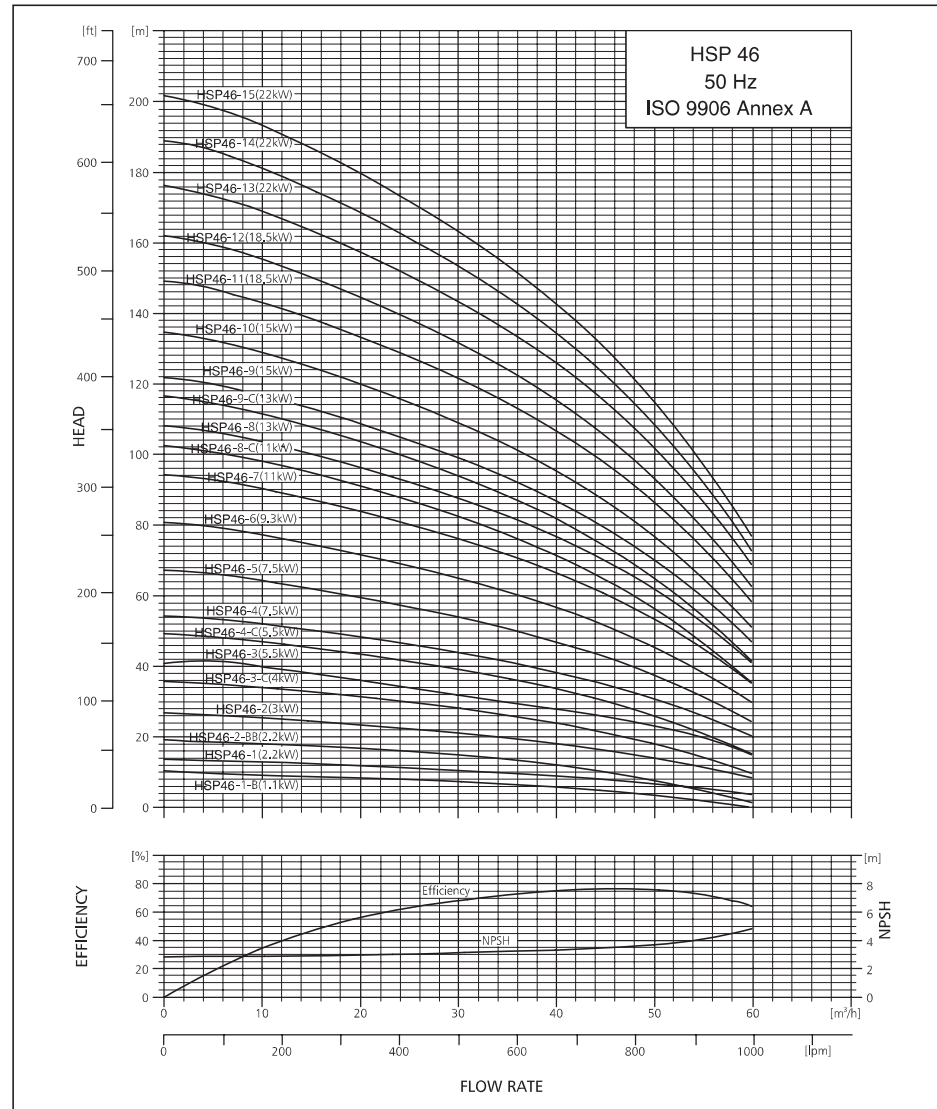


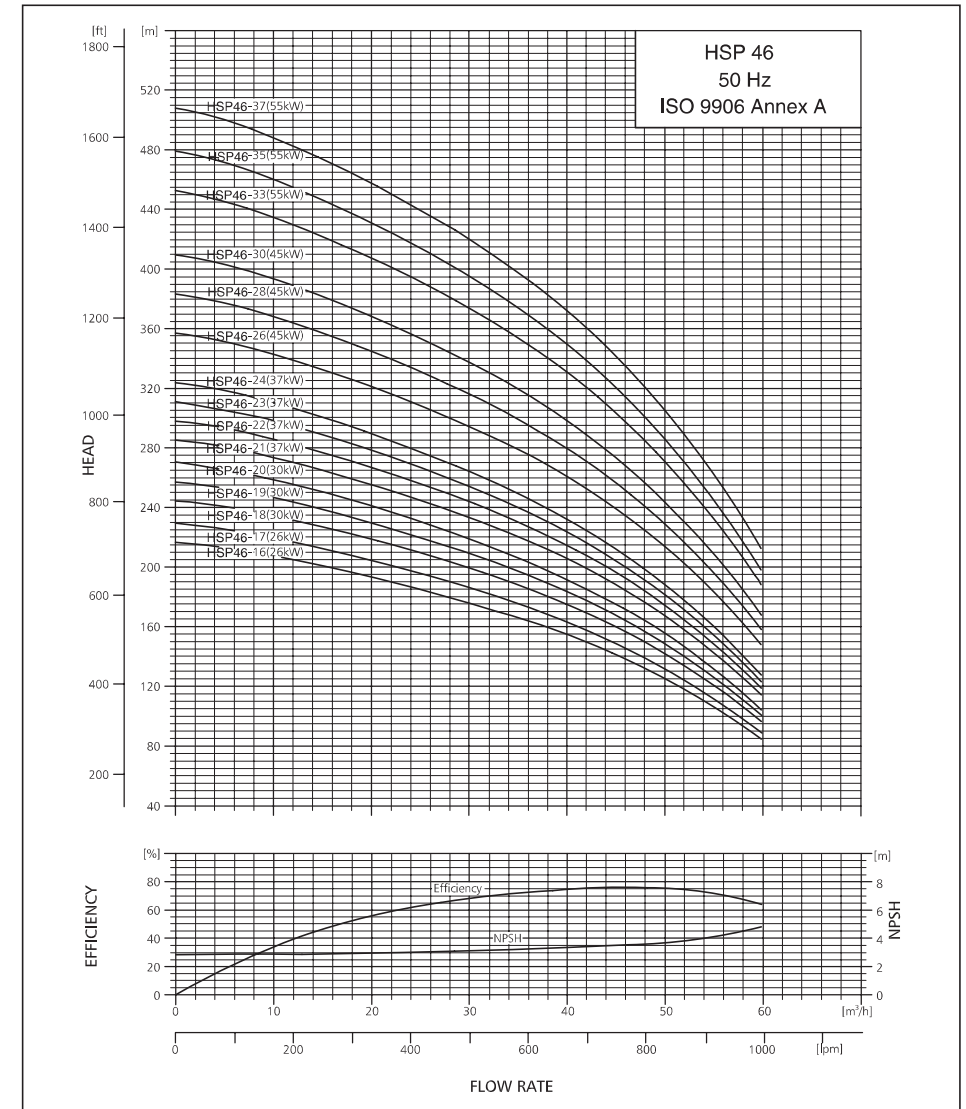
## PERFORMANCE CURVE

### SUBMERSIBLE PUMP HSP 46



## PERFORMANCE CURVE

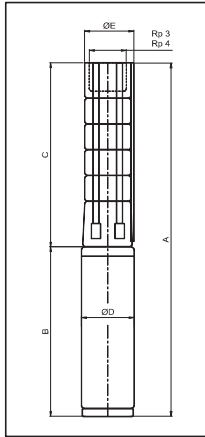
### SUBMERSIBLE PUMP HSP 46



## TECHNICAL DATA

### SUBMERSIBLE PUMP HSP 46

#### DIMENSIONS AND WEIGHTS



E = Maximum diameter of pump inclusive of cable guard & motor.



TECHNICAL DATA HSP 46

| PUMP TYPE  | MOTOR    |            | DIMENSIONS (MM)  |      |     |     |      |                  |     |     |      |     | NETWEIGHT(KG) |       |
|------------|----------|------------|------------------|------|-----|-----|------|------------------|-----|-----|------|-----|---------------|-------|
|            | TYPE     | POWER (kW) | Rp 3" CONNECTION |      |     |     |      | Rp 4" CONNECTION |     |     |      |     | PUMP          | MOTOR |
|            |          |            | A                | C    | E*  | E** | A    | C                | E*  | E** | B    | D   |               |       |
| HSP46-1-B  | MOTOR 4" | 1.1        | 659              | 367  | 150 | -   | 659  | 367              | 150 | -   | 292  | 95  | 6             | 11    |
| HSP46-1    | MOTOR 4" | 2.2        | 772              | 367  | 150 | -   | 772  | 367              | 150 | -   | 405  | 95  | 6             | 15    |
| HSP46-2-BB | MOTOR 4" | 2.2        | 885              | 480  | 150 | -   | 885  | 480              | 150 | -   | 405  | 95  | 8             | 15    |
| HSP46-2    | MOTOR 4" | 3          | 962              | 480  | 150 | -   | 962  | 480              | 150 | -   | 482  | 95  | 8             | 17    |
| HSP46-3-C  | MOTOR 4" | 4          | 1172             | 593  | 150 | -   | 1172 | 593              | 150 | -   | 579  | 95  | 11            | 23    |
| HSP46-3    | MOTOR 4" | 5.5        | 1286             | 593  | 150 | -   | 1286 | 593              | 150 | -   | 693  | 95  | 11            | 29    |
| HSP46-4-C  | MOTOR 4" | 5.5        | 1399             | 706  | 150 | -   | 1399 | 706              | 150 | -   | 693  | 95  | 13            | 29    |
| HSP46-4    | MOTOR 4" | 7.5        | 1476             | 706  | 150 | -   | 1476 | 706              | 150 | -   | 770  | 95  | 13            | 33    |
| HSP46-5    | MOTOR 4" | 7.5        | 1589             | 819  | 150 | -   | 1589 | 819              | 150 | -   | 770  | 95  | 15            | 33    |
| HSP46-3-C  | MOTOR 6" | 4          | 1309             | 610  | 150 | 155 | 1309 | 610              | 150 | 155 | 699  | 145 | 11            | 48    |
| HSP46-3    | MOTOR 6" | 5.5        | 1309             | 610  | 150 | 155 | 1309 | 610              | 150 | 155 | 699  | 145 | 11            | 48    |
| HSP46-4-C  | MOTOR 6" | 5.5        | 1422             | 723  | 150 | 155 | 1422 | 723              | 150 | 155 | 699  | 145 | 13            | 48    |
| HSP46-4    | MOTOR 6" | 7.5        | 1442             | 723  | 150 | 155 | 1442 | 723              | 150 | 155 | 719  | 145 | 13            | 50    |
| HSP46-5    | MOTOR 6" | 7.5        | 1555             | 836  | 150 | 155 | 1555 | 836              | 150 | 155 | 719  | 145 | 15            | 50    |
| HSP46-6    | MOTOR 6" | 9.3        | 1698             | 949  | 150 | 155 | 1698 | 949              | 150 | 155 | 749  | 145 | 18            | 53    |
| HSP46-7    | MOTOR 6" | 11         | 1841             | 1062 | 150 | 155 | 1841 | 1062             | 150 | 155 | 779  | 145 | 20            | 56    |
| HSP46-8C   | MOTOR 6" | 11         | 1954             | 1175 | 150 | 155 | 1954 | 1175             | 150 | 155 | 779  | 145 | 22            | 56    |
| HSP46-8    | MOTOR 6" | 13         | 2004             | 1175 | 150 | 155 | 2004 | 1175             | 150 | 155 | 829  | 145 | 22            | 61    |
| HSP46-9C   | MOTOR 6" | 13         | 2117             | 1288 | 150 | 155 | 2117 | 1288             | 150 | 155 | 829  | 145 | 24            | 61    |
| HSP46-9    | MOTOR 6" | 15         | 2162             | 1288 | 150 | 155 | 2162 | 1288             | 150 | 155 | 874  | 145 | 24            | 66    |
| HSP46-10   | MOTOR 6" | 15         | 2275             | 1401 | 150 | 155 | 2275 | 1401             | 150 | 155 | 874  | 145 | 27            | 66    |
| HSP46-11   | MOTOR 6" | 18.5       | 2433             | 1514 | 150 | 155 | 2433 | 1514             | 150 | 155 | 919  | 145 | 29            | 70    |
| HSP46-12   | MOTOR 6" | 18.5       | 2546             | 1627 | 150 | 155 | 2546 | 1627             | 150 | 155 | 919  | 145 | 31            | 70    |
| HSP46-13   | MOTOR 6" | 22         | 2749             | 1740 | 150 | 155 | 2749 | 1740             | 150 | 155 | 1009 | 145 | 34            | 79    |
| HSP46-14   | MOTOR 6" | 22         | 2862             | 1853 | 150 | 155 | 2862 | 1853             | 150 | 155 | 1009 | 145 | 36            | 79    |
| HSP46-15   | MOTOR 6" | 22         | 2975             | 1966 | 150 | 155 | 2975 | 1966             | 150 | 155 | 1009 | 145 | 38            | 79    |
| HSP46-16   | MOTOR 6" | 26         | 3193             | 2079 | 150 | 155 | 3193 | 2079             | 150 | 155 | 1114 | 145 | 41            | 90    |
| HSP46-17   | MOTOR 6" | 26         | 3306             | 2192 | 150 | 155 | 3306 | 2192             | 150 | 155 | 1114 | 145 | 43            | 90    |
| HSP46-18   | MOTOR 6" | 30         | 3519             | 2305 | 150 | 155 | 3519 | 2305             | 150 | 155 | 1214 | 145 | 45            | 100   |
| HSP46-19   | MOTOR 6" | 30         | 3632             | 2418 | 150 | 155 | 3632 | 2418             | 150 | 155 | 1214 | 145 | 47            | 100   |
| HSP46-20   | MOTOR 6" | 30         | 3745             | 2531 | 150 | 155 | 3745 | 2531             | 150 | 155 | 1214 | 145 | 50            | 100   |
| HSP46-18   | MOTOR 8" | 30         | 3445             | 2305 | 195 | 195 | 3445 | 2305             | 195 | 195 | 1140 | 195 | 45            | 172   |
| HSP46-19   | MOTOR 8" | 30         | 3558             | 2418 | 195 | 195 | 3558 | 2418             | 195 | 195 | 1140 | 195 | 47            | 172   |
| HSP46-20   | MOTOR 8" | 30         | 3671             | 2531 | 195 | 195 | 3671 | 2531             | 195 | 195 | 1140 | 195 | 50            | 172   |
| HSP46-21   | MOTOR 8" | 37         | 3784             | 2644 | 195 | 195 | 3784 | 2644             | 195 | 195 | 1140 | 195 | 52            | 172   |
| HSP46-22   | MOTOR 8" | 37         | 3897             | 2757 | 195 | 195 | 3897 | 2757             | 195 | 195 | 1140 | 195 | 54            | 172   |
| HSP46-23   | MOTOR 8" | 37         | 4010             | 2870 | 195 | 195 | 4010 | 2870             | 195 | 195 | 1140 | 195 | 57            | 172   |
| HSP46-24   | MOTOR 8" | 37         | 4123             | 2983 | 195 | 195 | 4123 | 2983             | 195 | 195 | 1140 | 195 | 59            | 172   |
| HSP46-26   | MOTOR 8" | 45         | 4439             | 3209 | 195 | 195 | 4439 | 3209             | 195 | 195 | 1230 | 195 | 64            | 188   |
| HSP46-28   | MOTOR 8" | 45         | 4665             | 3435 | 195 | 195 | 4665 | 3435             | 195 | 195 | 1230 | 195 | 68            | 188   |
| HSP46-30   | MOTOR 8" | 45         | 4891             | 3661 | 195 | 195 | 4891 | 3661             | 195 | 195 | 1230 | 195 | 73            | 188   |
| HSP46-33   | MOTOR 8" | 55         | 5340             | 4000 | 195 | 195 | 5340 | 4000             | 195 | 195 | 1340 | 195 | 80            | 211   |
| HSP46-35   | MOTOR 8" | 55         | 5566             | 4226 | 195 | 195 | 5566 | 4226             | 195 | 195 | 1340 | 195 | 84            | 211   |
| HSP46-37   | MOTOR 8" | 55         | 5792             | 4452 | 195 | 195 | 5792 | 4452             | 195 | 195 | 1340 | 195 | 89            | 211   |

\* Maximum diameter of pump with one motor cable.

\*\* Maximum diameter of pump with two motor cable.

Motor type may change as per requirement.

Other type of connection is possible by means of connecting pieces. See page no. 88

## TECHNICAL DATA

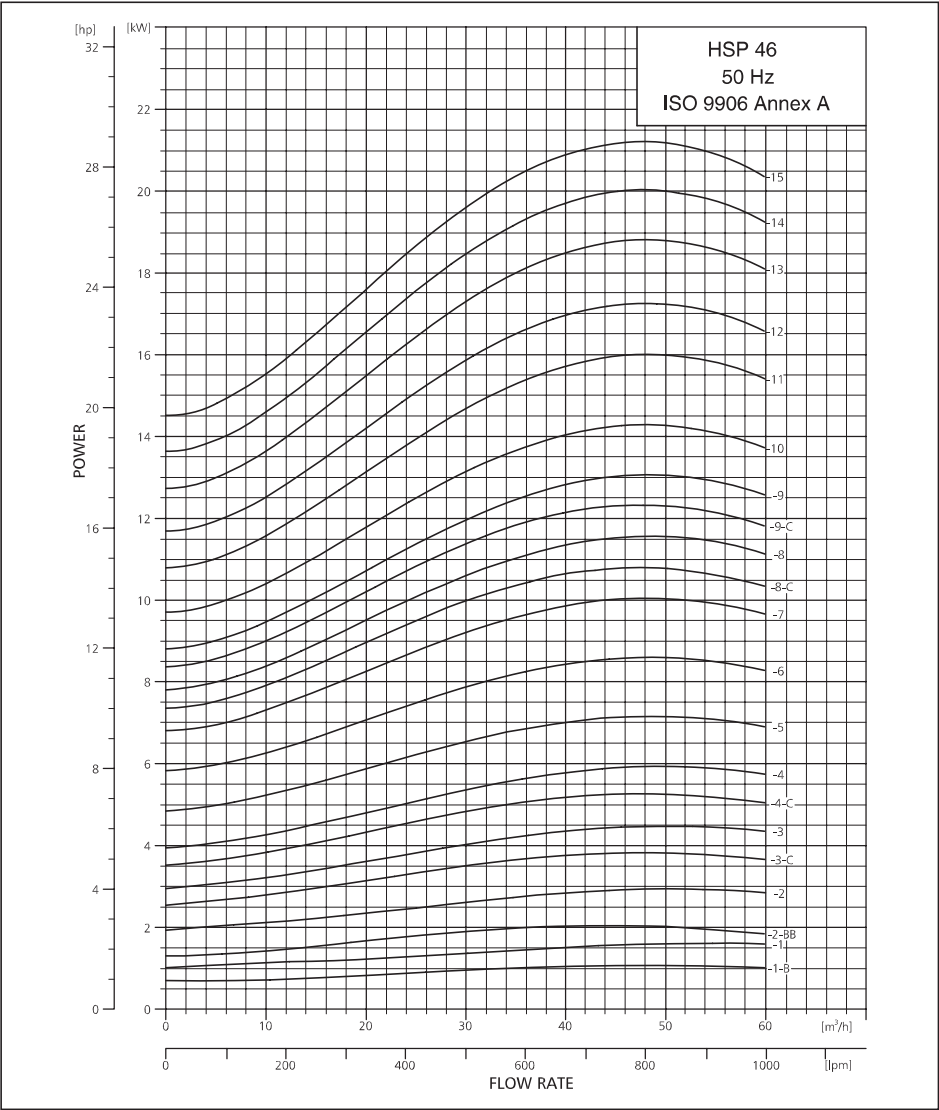
### SUBMERSIBLE PUMP HSP 46

PERFORMANCE TABLE HSP 46

| HSP - 46   |              |      | DISCHARGE (Q)     |       |     |       |       |     |       |       |     |       |       |       |     |      |
|------------|--------------|------|-------------------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-------|-----|------|
|            |              |      | m³/h              | 0     | 5   | 10    | 15    | 20  | 25    | 30    | 35  | 40    | 45    | 50    | 55  | 59.8 |
|            | 1/min.       | 0    | 83.3              | 166.7 | 250 | 333.3 | 416.7 | 500 | 583.3 | 666.7 | 750 | 833.3 | 916.7 | 996.7 |     |      |
| MODEL      | MOTOR RATING |      | TOTAL HEAD IN (m) |       |     |       |       |     |       |       |     |       |       |       |     |      |
|            | [kW]         | [HP] |                   |       |     |       |       |     |       |       |     |       |       |       |     |      |
| HSP46-2-BB | 2.2          | 3    | 19                | 19    | 18  | 17    | 17    | 16  | 15    | 14    | 12  | 10    | 8     | 5     | 1   |      |
| HSP46-2    | 3            | 4    | 27                | 26    | 25  | 24    | 23    | 22  | 21    | 20    | 18  | 16    | 14    | 11    | 9   |      |
| HSP46-3-C  | 4            | 5.5  | 36                | 35    | 34  | 33    | 31    | 30  | 28    | 26    | 24  | 21    | 18    | 14    | 10  |      |
| HSP46-3    | 5.5          | 7.5  | 41                | 41    | 40  | 38    | 36    | 34  | 32    | 30    | 28  | 26    | 23    | 20    | 15  |      |
| HSP46-4-C  | 5.5          | 7.5  | 49                | 48    | 47  | 45    | 43    | 41  | 39    | 37    | 34  | 30    | 26    | 21    | 15  |      |
| HSP46-4    | 7.5          | 10   | 54                | 53    | 52  | 50    | 48    | 46  | 44    | 41    | 38  | 35    | 31    | 26    | 20  |      |
| HSP46-5    | 7.5          | 10   | 67                | 66    | 64  | 62    | 60    | 57  | 54    | 51    | 47  | 43    | 37    | 31    | 24  |      |
| HSP46-6    | 9.3          | 12.5 | 81                | 79    | 77  | 75    | 72    | 69  | 65    | 61    | 57  | 51    | 45    | 38    | 30  |      |
| HSP46-7    | 11           | 15   | 94                | 93    | 90  | 87    | 84    | 80  | 76    | 72    | 66  | 61    | 53    | 45    | 35  |      |
| HSP46-8-C  | 11           | 15   | 103               | 101   | 98  | 95    | 91    | 87  | 82    | 77    | 71  | 65    | 56    | 46    | 36  |      |
| HSP46-8    | 13           | 17.5 | 108               | 106   | 104 | 100   | 96    | 92  | 88    | 83    | 77  | 70    | 62    | 52    | 41  |      |
| HSP46-9-C  | 13           | 17.5 | 117               | 115   | 112 | 108   | 104   | 99  | 94    | 88    | 82  | 74    | 65    | 54    | 42  |      |
| HSP46-9    | 15           | 20   | 122               | 120   | 117 | 113   | 109   | 104 | 99    | 93    | 87  | 79    | 70    | 59    | 47  |      |
| HSP46-10   | 15           | 20   | 135               | 132   | 129 | 125   | 120   | 115 | 109   | 103   | 95  | 87    | 77    | 65    | 51  |      |
| HSP46-11   | 18.5         | 25   | 149               | 147   | 143 | 138   | 133   | 128 | 122   | 115   | 107 | 97    | 86    | 73    | 59  |      |
| HSP46-12   | 18.5         | 25   | 162               | 159   | 155 | 150   | 145   | 138 | 132   | 124   | 115 | 105   | 93    | 79    | 63  |      |
| HSP46-13   | 22           | 30   | 176               | 173   | 169 | 163   | 157   | 151 | 143   | 135   | 126 | 115   | 102   | 86    | 69  |      |
| HSP46-14   | 22           | 30   | 189               | 186   | 181 | 175   | 169   | 161 | 153   | 144   | 134 | 122   | 108   | 92    | 73  |      |
| HSP46-15   | 22           | 30   | 202               | 198   | 193 | 187   | 180   | 172 | 163   | 154   | 143 | 130   | 115   | 97    | 77  |      |
| HSP46-16   | 26           | 35   | 217               | 213   | 208 | 201   | 193   | 185 | 176   | 166   | 155 | 141   | 125   | 106   | 85  |      |
| HSP46-17   | 26           | 35   | 229               | 226   | 220 | 213   | 205   | 196 | 186   | 175   | 163 | 149   | 132   | 112   | 89  |      |
| HSP46-18   | 30           | 40   | 244               | 241   | 234 | 227   | 219   | 209 | 199   | 188   | 175 | 160   | 142   | 121   | 97  |      |
| HSP46-19   | 30           | 40   | 257               | 253   | 247 | 239   | 230   | 220 | 209   | 197   | 183 | 167   | 148   | 126   | 101 |      |
| HSP46-20   | 30           | 40   | 270               | 265   | 259 | 251   | 241   | 230 | 219   | 206   | 192 | 175   | 155   | 132   | 105 |      |
| HSP46-21   | 37           | 50   | 285               | 280   | 273 | 265   | 255   | 245 | 234   | 221   | 206 | 188   | 167   | 143   | 115 |      |
| HSP46-22   | 37           | 50   | 298               | 293   | 286 | 277   | 267   | 256 | 244   | 230   | 215 | 196   | 174   | 148   | 119 |      |
| HSP46-23   | 37           | 50   | 311               | 306   | 298 | 289   | 278   | 267 | 254   | 240   | 223 | 204   | 181   | 154   | 124 |      |
| HSP46-24   | 37           | 50   | 324               | 318   | 310 | 300   | 289   | 277 | 264   | 249   | 232 | 212   | 188   | 160   | 128 |      |
| HSP46-26   | 45           | 60   | 357               | 351   | 343 | 332   | 321   | 308 | 295   | 279   | 261 | 239   | 214   | 183   | 149 |      |
| HSP46-28   | 45           | 60   | 383               | 377   | 368 | 357   | 345   | 331 | 316   | 299   | 280 | 256   | 229   | 196   | 159 |      |
| HSP46-30   | 45           | 60   | 410               | 403   | 393 | 381   | 368   | 353 | 337   | 319   | 298 | 273   | 244   | 208   | 169 |      |
| HSP46-33   | 55           | 75   | 452               | 445   | 435 | 422   | 407   | 391 | 374   | 354   | 331 | 303   | 271   | 232   | 189 |      |
| HSP46-35   | 55           | 75   | 480               | 450   | 460 | 440   | 430   | 400 | 395   | 375   | 350 | 325   | 285   | 250   | 200 |      |
| HSP46-37   | 55           | 75   | 510               | 500   | 488 | 475   | 455   | 440 | 420   | 400   | 372 | 350   | 305   | 240   | 212 |      |

PERFORMANCE CURVE

SUBMERSIBLE PUMP HSP 46



PERFORMANCE CURVE

SUBMERSIBLE PUMP HSP 46

