

Since 1969  
**Unnati**<sup>®</sup>  
MOTORS | PUMPS

60 Hz



**TOGETHER WE CAN DO IT  
TOGETHER WE HAVE ALWAYS DONE IT**





Since 1969  
**Unnati**<sup>®</sup>  
MOTORS | PUMPS

## QUALITY POLICY

"UNNATI" Aims To Meet Customer Requirements And Expectations By Supply Quality Product On Schedule Time And Continually Improve The Effectiveness Of The Quality Management System".

## QUALITY OBJECTIVES

The Quality Objective Of Unnati Management Is To Supply Only That Product, Which Meets Customer Requirements As Per International Standards Of Quality, Performance., Reliability, Specified By Him. And Only Those Items Will Be Submitted To Him For Acceptance, Which Fully Meet The Inherent Requirements Of Product.

Also Every Step Is Taken To Establish And Maintain An Effective And Efficient Quality Program Planned And Developed In Conjunction With Other Management Functions By First Time Right Principles.



# Performance Range

Stainless steel submersible bore well pumps

| Model  | Borewell Dia. | GPM    | Head    | Del. (NPT)    |
|--------|---------------|--------|---------|---------------|
| USP2   | 4"            | 0-13   | 1673-62 | 1/4"          |
| USP3   | 4"            | 0-20   | 2231-67 | 1/4" / 1 1/2" |
| USP5   | 4"            | 0-34   | 1575-33 | 1/4" / 1 1/2" |
| USP8   | 4"            | 0-54   | 1867-39 | 2"            |
| USP14  | 4"            | 0-96   | 489-43  | 2"            |
| USP17  | 6"            | 0-118  | 2079-20 | 2 1/2"        |
| USP30  | 6"            | 0-207  | 2133-16 | 3"/4"         |
| USP46  | 6"            | 0-316  | 1555-1  | 4"            |
| USP60  | 6"            | 0-403  | 1457-19 | 4"            |
| USP77  | 8"            | 0-528  | 1427-32 | 5"            |
| USP95  | 8"            | 0-660  | 1309-7  | 5"            |
| USP125 | 10"           | 0-859  | 1772-19 | 6"            |
| USP160 | 10"           | 0-1100 | 1496-19 | 6"            |
| USP215 | 11"           | 0-1475 | 1240-14 | 6"            |

# Product Range

Stainless steel submersible bore well pumps

USP2, USP3  
& USP5



USP8



USP14



USP30



USP46 & USP60



USP77 & USP95



USP125  
& USP160



USP215

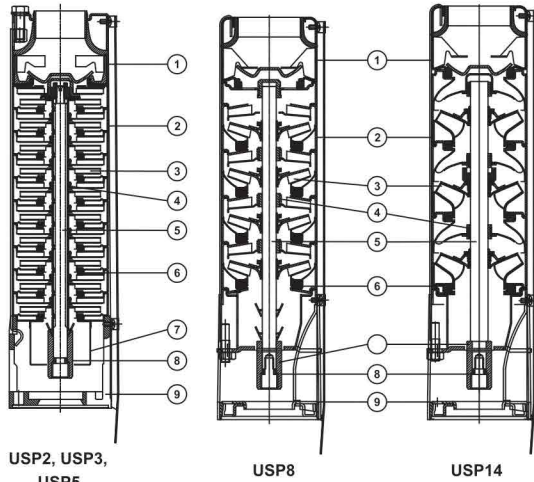


# Construction

## Stainless steel submersible bore well pumps

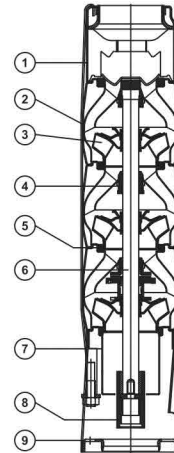
### Sectional drawing & Materials

#### 4" Stainless steel submersible bore well pumps



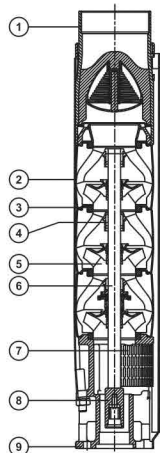
| Pos. | Component               | Material                       |
|------|-------------------------|--------------------------------|
| 01   | Delivery casing         | Stainless steel AISI 304 / Cf8 |
| 02   | Diffuser                | Stainless steel AISI 304       |
| 03   | Impeller                | Stainless steel AISI 304       |
| 04   | Bearing                 | NBR                            |
| 05   | Pump shaft              | Stainless steel AISI 410 / 304 |
| 06   | Neck ring               | NBR                            |
| 07   | Strainer                | Stainless steel AISI 304       |
| 08   | Coupling                | Stainless steel AISI 304       |
| 09   | Suction inter connector | Stainless steel AISI 304       |

#### 6" Stainless steel submersible bore well pumps



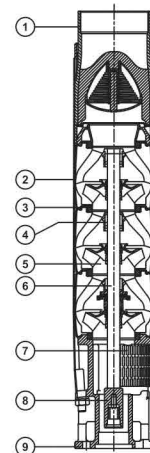
| Pos. | Component               | Material                      |
|------|-------------------------|-------------------------------|
| 01   | Delivery casing         | Stainless steel AISI 304      |
| 02   | Diffuser                | Stainless steel AISI 304      |
| 03   | Impeller                | Stainless steel AISI 304      |
| 04   | Bearing                 | NBR                           |
| 05   | Neck ring               | NBR                           |
| 06   | Pump shaft              | Stainless steel AISI 431      |
| 07   | Strainer                | Stainless steel AISI 304      |
| 08   | Coupling                | Stainless steel AISI 304      |
| 09   | Suction inter connector | Stainless steel AISI 304      |
| 10   | Upper Thrust            | Stainless steel AISI 304 / NR |

#### 8" Stainless steel submersible bore well pumps



| Pos. | Component               | Material                       |
|------|-------------------------|--------------------------------|
| 01   | Delivery casing         | Stainless steel AISI 304 / Cf8 |
| 02   | Diffuser                | AISI 304                       |
| 03   | Neck ring               | NBR                            |
| 04   | Bearing                 | NBR                            |
| 05   | Impeller                | AISI 304                       |
| 06   | Pump shaft              | AISI 431                       |
| 07   | Strainer                | Stainless steel AISI 304       |
| 08   | Coupling                | AISI 304                       |
| 09   | Suction inter connector | Stainless steel AISI 304 / Cf8 |

#### 10" Stainless steel submersible bore well pumps



| Pos. | Component               | Material                       |
|------|-------------------------|--------------------------------|
| 01   | Delivery casing         | Stainless steel AISI 304 / Cf8 |
| 02   | Diffuser                | Stainless steel AISI 304       |
| 03   | Neck ring               | NBR                            |
| 04   | Bearing                 | NBR                            |
| 05   | Impeller                | Stainless steel AISI 304       |
| 06   | Pump shaft              | Stainless steel AISI 431       |
| 07   | Strainer                | Stainless steel AISI 304       |
| 08   | Coupling                | Stainless steel AISI 304       |
| 09   | Suction inter connector | Stainless steel AISI 304 / Cf8 |

# Technical Data

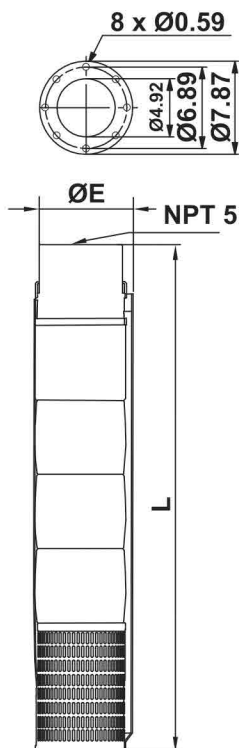
## Stainless Steel Pumps

# 8" USP77

## Performance Table

| Model Name | kW    | HP    | Stage | Q     | n = 3450 rpm |     |     |     |      |      |      |      |
|------------|-------|-------|-------|-------|--------------|-----|-----|-----|------|------|------|------|
|            |       |       |       | L/min | 0            | 167 | 333 | 833 | 1167 | 1500 | 1667 | 2000 |
|            |       |       |       | USgpm | 0            | 44  | 88  | 220 | 308  | 396  | 440  | 528  |
| USP77/1    | 5.50  | 7.50  | 1     |       | 99           | 97  | 94  | 76  | 66   | 56   | 51   | 32   |
| USP77/2-BA | 7.50  | 10.00 | 2     |       | 125          | 125 | 123 | 106 | 89   | 66   | 52   | 13   |
| USP77/2-A  | 11.00 | 12.50 | 2     |       | 164          | 161 | 157 | 134 | 115  | 93   | 79   | 39   |
| USP77/2    | 11.00 | 15.00 | 2     |       | 194          | 191 | 187 | 157 | 136  | 116  | 102  | 65   |
| USP77/3-AA | 13.00 | 17.50 | 3     |       | 229          | 226 | 222 | 190 | 164  | 130  | 107  | 47   |
| USP77/3-A  | 15.00 | 20.00 | 3     | H ft. | 259          | 257 | 252 | 213 | 184  | 154  | 131  | 73   |
| USP77/3    | 18.50 | 25.00 | 3     |       | 290          | 289 | 283 | 240 | 210  | 179  | 157  | 101  |
| USP77/4-B  | 18.50 | 25.00 | 4     |       | 346          | 344 | 338 | 288 | 249  | 207  | 178  | 102  |
| USP77/4    | 22.00 | 30.00 | 4     |       | 383          | 381 | 374 | 318 | 276  | 236  | 209  | 131  |
| USP77/5-BB | 22.00 | 30.00 | 5     |       | 405          | 400 | 394 | 338 | 290  | 239  | 202  | 108  |
| USP77/5    | 30.00 | 40.00 | 5     |       | 480          | 479 | 471 | 400 | 349  | 299  | 263  | 167  |

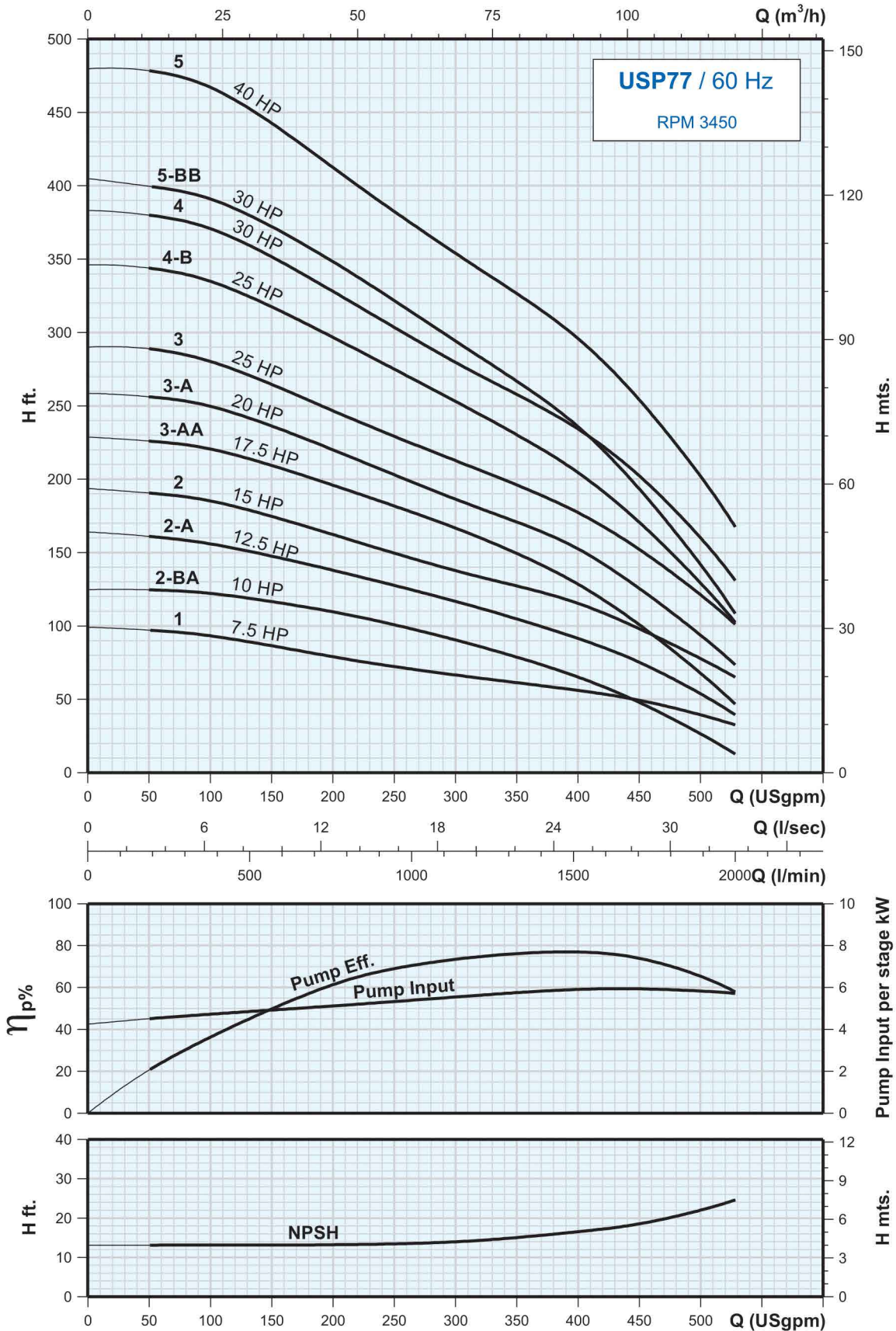
## Dimensions & Weights



| Model Name | Motor Joining Size | ØE (inch) | L (inch) | Pump Gross weight (lbs) | Pump Gross Volume (ft <sup>3</sup> ) |
|------------|--------------------|-----------|----------|-------------------------|--------------------------------------|
| USP77/1    | 6"                 | 7.01      | 24.33    | 57.0                    | 0.95                                 |
| USP77/2-BA | 6"                 | 7.01      | 29.37    | 66.0                    | 1.11                                 |
| USP77/2-A  | 6"                 | 7.01      | 29.37    | 66.0                    | 1.11                                 |
| USP77/2    | 6"                 | 7.01      | 29.37    | 66.0                    | 1.11                                 |
| USP77/3-AA | 6"                 | 7.01      | 34.41    | 75.0                    | 1.27                                 |
| USP77/3-A  | 6"                 | 7.01      | 34.41    | 75.0                    | 1.27                                 |
| USP77/3    | 6"                 | 7.01      | 34.41    | 75.0                    | 1.27                                 |
| USP77/4-B  | 6"                 | 7.01      | 39.45    | 84.0                    | 1.43                                 |
| USP77/4    | 6"                 | 7.01      | 39.45    | 84.0                    | 1.43                                 |
| USP77/5-BB | 6"                 | 7.01      | 44.49    | 93.0                    | 1.59                                 |
| USP77/5    | 6"                 | 7.01      | 44.49    | 93.0                    | 1.59                                 |



# Performance Curve



# Technical Data

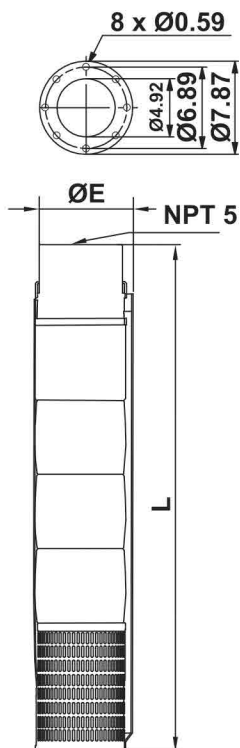
## Stainless Steel Pumps

# 8" USP77

## Performance Table

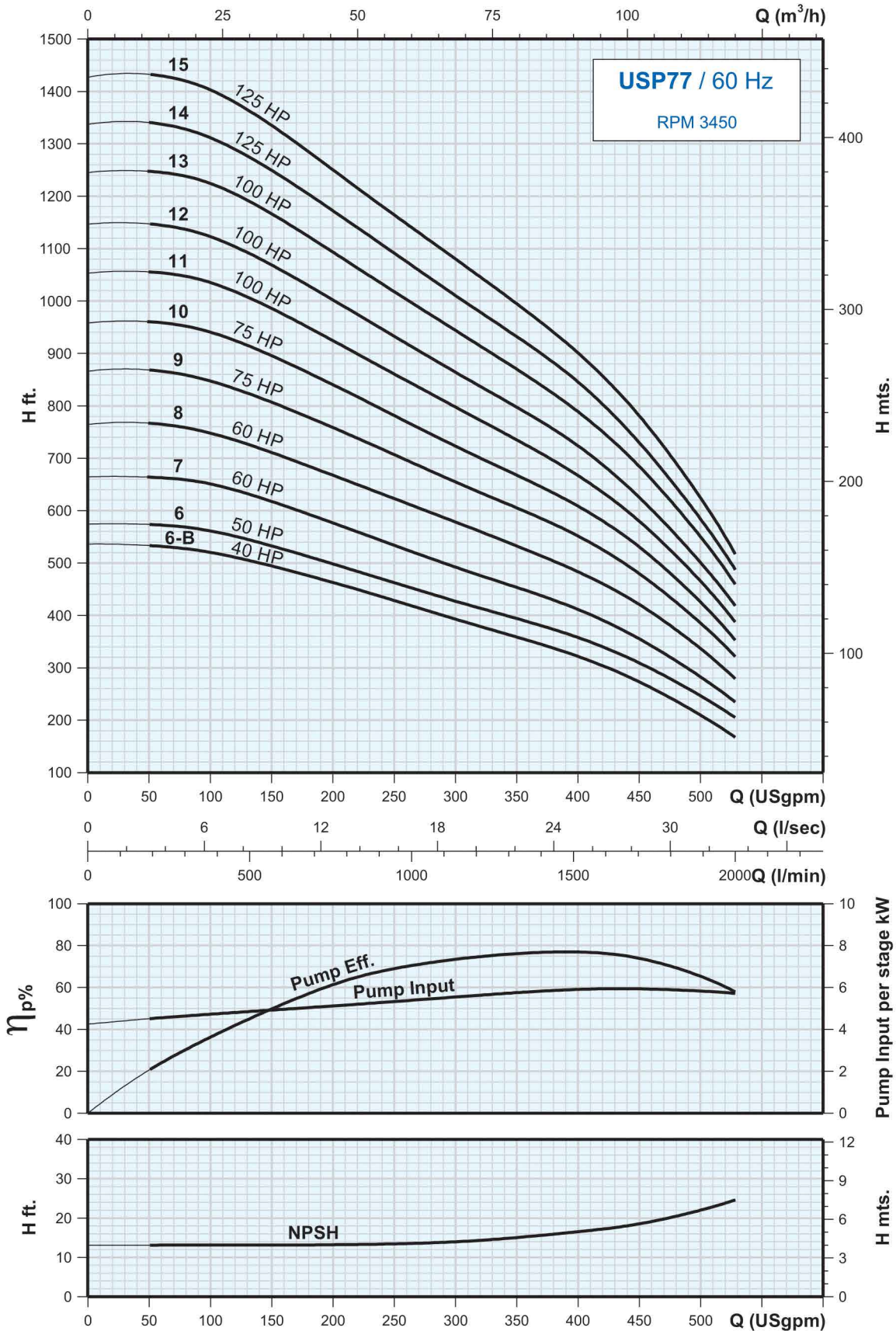
| Model Name | kW    | HP     | Stage | Q     | n = 3450 rpm |      |      |      |      |      |      |      |
|------------|-------|--------|-------|-------|--------------|------|------|------|------|------|------|------|
|            |       |        |       | L/min | 0            | 167  | 333  | 833  | 1167 | 1500 | 1667 | 2000 |
|            |       |        |       | USgpm | 0            | 44   | 88   | 220  | 308  | 396  | 440  | 528  |
| USP77/6-B  | 30.00 | 40.00  | 6     |       | 536          | 534  | 525  | 449  | 387  | 325  | 284  | 167  |
| USP77/6    | 37.00 | 50.00  | 6     |       | 574          | 574  | 566  | 484  | 422  | 361  | 320  | 205  |
| USP77/7    | 45.00 | 60.00  | 7     |       | 664          | 664  | 656  | 559  | 486  | 415  | 367  | 235  |
| USP77/8    | 45.00 | 60.00  | 8     |       | 768          | 764  | 755  | 650  | 571  | 487  | 435  | 279  |
| USP77/9    | 55.00 | 75.00  | 9     |       | 869          | 866  | 855  | 738  | 646  | 556  | 495  | 322  |
| USP77/10   | 55.00 | 75.00  | 10    | H ft. | 961          | 958  | 948  | 817  | 714  | 614  | 548  | 353  |
| USP77/11   | 75.00 | 100.00 | 11    |       | 1056         | 1053 | 1043 | 899  | 787  | 673  | 599  | 387  |
| USP77/12   | 75.00 | 100.00 | 12    |       | 1148         | 1147 | 1132 | 974  | 853  | 730  | 646  | 418  |
| USP77/13   | 75.00 | 100.00 | 13    |       | 1248         | 1245 | 1234 | 1063 | 932  | 796  | 707  | 459  |
| USP77/14   | 93.00 | 125.00 | 14    |       | 1342         | 1337 | 1322 | 1140 | 997  | 853  | 755  | 487  |
| USP77/15   | 93.00 | 125.00 | 15    |       | 1434         | 1427 | 1414 | 1216 | 1066 | 909  | 807  | 517  |

## Dimensions & Weights



| Model Name | Motor Joining Size | ØE (inch) | L (inch) | Pump Gross weight (lbs) | Pump Gross Volume (ft <sup>3</sup> ) |
|------------|--------------------|-----------|----------|-------------------------|--------------------------------------|
| USP77/6-B  | 6"                 | 7.01      | 49.53    | 102.00                  | 1.75                                 |
| USP77/6    | 6"                 | 7.01      | 49.53    | 102.00                  | 1.75                                 |
| USP77/7    | 6"                 | 7.01      | 54.57    | 111.00                  | 1.91                                 |
| USP77/8    | 8"                 | 7.87      | 60.20    | 120.00                  | 2.07                                 |
| USP77/9    | 8"                 | 7.87      | 65.24    | 129.00                  | 2.23                                 |
| USP77/10   | 8"                 | 7.87      | 70.28    | 138.00                  | 2.39                                 |
| USP77/11   | 8"                 | 7.87      | 75.31    | 147.00                  | 2.55                                 |
| USP77/12   | 8"                 | 7.87      | 80.35    | 156.00                  | 2.71                                 |
| USP77/13   | 8"                 | 7.87      | 85.39    | 165.00                  | 2.87                                 |
| USP77/14   | 8"                 | 7.87      | 90.43    | 174.00                  | 3.03                                 |
| USP77/15   | 8"                 | 7.87      | 95.47    | 183.00                  | 3.18                                 |

# Performance Curve



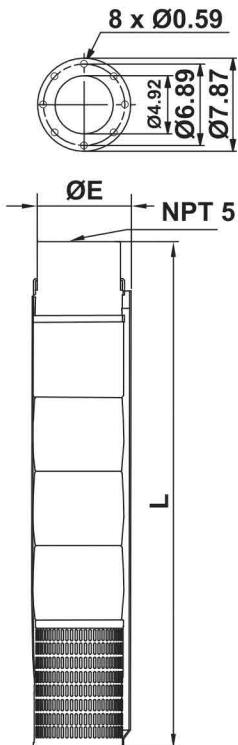
# Technical Data

## Stainless Steel Pumps

# 8" USP95

## Performance Table

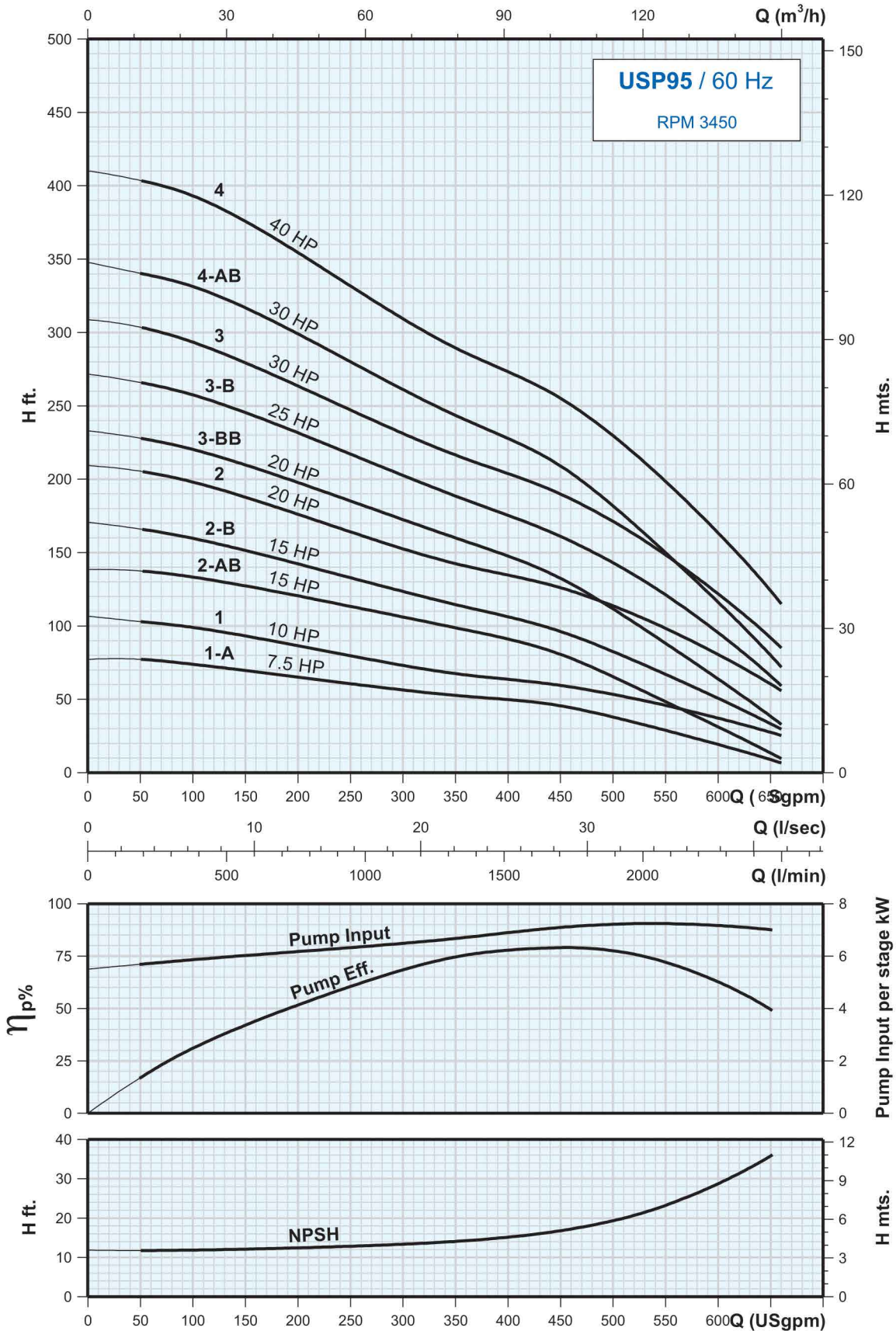
| Model Name | kW    | HP    | Stage | Q     | n = 3450 rpm |     |     |      |      |      |      |
|------------|-------|-------|-------|-------|--------------|-----|-----|------|------|------|------|
|            |       |       |       | L/min | 0            | 167 | 333 | 1333 | 1667 | 2000 | 2500 |
|            |       |       |       | USgpm | 0            | 44  | 88  | 352  | 440  | 528  | 660  |
| USP95/1-A  | 5.50  | 7.50  | 1     |       | 77           | 77  | 75  | 52   | 47   | 33   | 7    |
| USP95/1    | 7.50  | 10.00 | 1     |       | 107          | 103 | 100 | 67   | 60   | 49   | 25   |
| USP95/2-AB | 11.00 | 15.00 | 2     |       | 138          | 138 | 135 | 98   | 83   | 56   | 10   |
| USP95/2-B  | 11.00 | 15.00 | 2     |       | 171          | 167 | 161 | 114  | 98   | 74   | 30   |
| USP95/2    | 15.00 | 20.00 | 2     |       | 209          | 206 | 200 | 142  | 128  | 105  | 56   |
| USP95/3-BB | 15.00 | 20.00 | 3     | H ft. | 233          | 229 | 222 | 159  | 136  | 98   | 33   |
| USP95/3-B  | 18.50 | 25.00 | 3     |       | 272          | 267 | 260 | 188  | 164  | 131  | 59   |
| USP95/3    | 22.00 | 30.00 | 3     |       | 309          | 304 | 296 | 216  | 193  | 159  | 85   |
| USP95/4-AB | 22.00 | 30.00 | 4     |       | 348          | 341 | 334 | 243  | 213  | 164  | 72   |
| USP95/4    | 30.00 | 40.00 | 4     |       | 410          | 405 | 396 | 289  | 259  | 213  | 115  |



## Dimensions & Weights

| Model Name | Motor Joining Size | ØE (inch) | L (inch) | Pump Gross weight (lbs) | Pump Gross Volume (ft <sup>3</sup> ) |
|------------|--------------------|-----------|----------|-------------------------|--------------------------------------|
| USP95/1-A  | 6"                 | 7.01      | 24.33    | 57.0                    | 0.95                                 |
| USP95/1    | 6"                 | 7.01      | 24.33    | 57.0                    | 0.95                                 |
| USP95/2-AB | 6"                 | 7.01      | 29.37    | 66.0                    | 1.11                                 |
| USP95/2-B  | 6"                 | 7.01      | 29.37    | 66.0                    | 1.11                                 |
| USP95/2    | 6"                 | 7.01      | 29.37    | 66.0                    | 1.11                                 |
| USP95/3-BB | 6"                 | 7.01      | 34.41    | 75.0                    | 1.27                                 |
| USP95/3-B  | 6"                 | 7.01      | 34.41    | 75.0                    | 1.27                                 |
| USP95/3    | 6"                 | 7.01      | 34.41    | 75.0                    | 1.27                                 |
| USP95/4-AB | 6"                 | 7.01      | 39.45    | 84.0                    | 1.43                                 |
| USP95/4    | 6"                 | 7.01      | 39.45    | 84.0                    | 1.43                                 |

# Performance Curve



# Technical Data

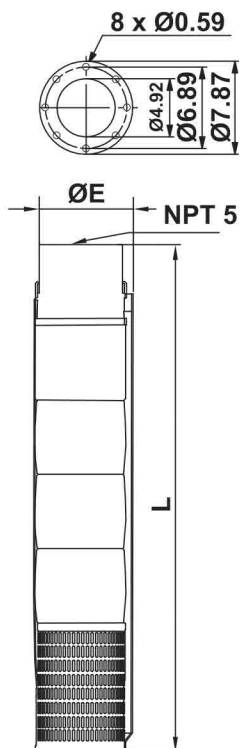
## Stainless Steel Pumps

# 8" USP95

## Performance Table

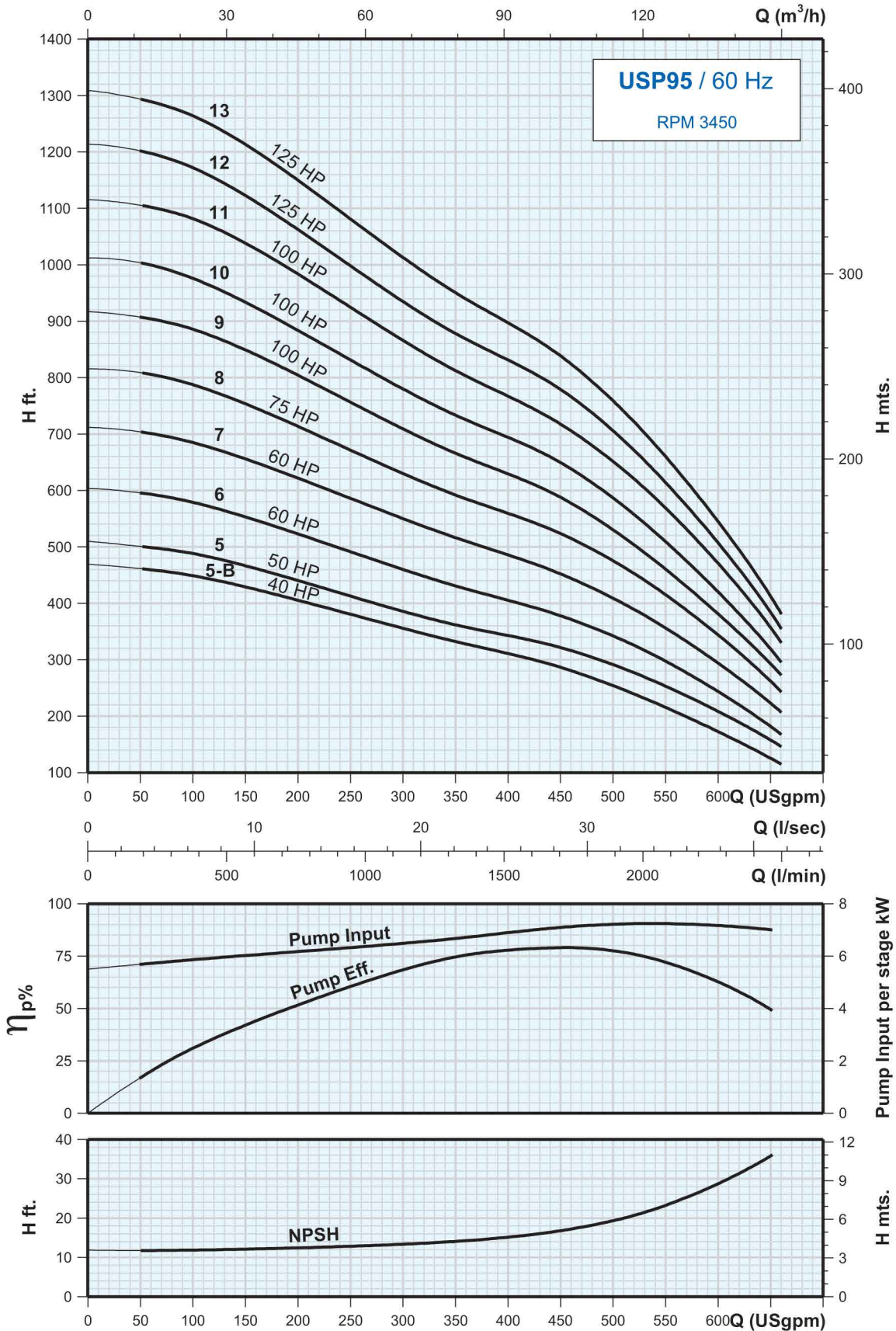
| Model Name | kW    | HP     | Stage | Q     | n = 3450 rpm |      |      |      |      |      |      |
|------------|-------|--------|-------|-------|--------------|------|------|------|------|------|------|
|            |       |        |       | L/min | 0            | 167  | 333  | 1333 | 1667 | 2000 | 2500 |
|            |       |        |       | USgpm | 0            | 44   | 88   | 352  | 440  | 528  | 660  |
| USP95/5-B  | 30.00 | 40.00  | 5     |       | 469          | 463  | 453  | 331  | 292  | 233  | 115  |
| USP95/5    | 37.00 | 50.00  | 5     |       | 510          | 502  | 492  | 361  | 326  | 271  | 146  |
| USP95/6    | 45.00 | 60.00  | 6     |       | 604          | 597  | 584  | 430  | 384  | 318  | 167  |
| USP95/7    | 45.00 | 60.00  | 7     |       | 712          | 705  | 691  | 515  | 459  | 381  | 207  |
| USP95/8    | 55.00 | 75.00  | 8     | H ft. | 815          | 810  | 794  | 591  | 531  | 443  | 243  |
| USP95/9    | 75.00 | 100.00 | 9     |       | 917          | 909  | 892  | 664  | 597  | 492  | 272  |
| USP95/10   | 75.00 | 100.00 | 10    |       | 1012         | 1006 | 984  | 732  | 659  | 545  | 295  |
| USP95/11   | 75.00 | 100.00 | 11    |       | 1115         | 1107 | 1089 | 810  | 728  | 607  | 330  |
| USP95/12   | 93.00 | 125.00 | 12    |       | 1214         | 1204 | 1181 | 876  | 791  | 656  | 354  |
| USP95/13   | 93.00 | 125.00 | 13    |       | 1309         | 1296 | 1273 | 948  | 851  | 705  | 381  |

## Dimensions & Weights



| Model Name | Motor Joining Size | ØE (inch) | L (inch) | Pump Gross weight (lbs) | Pump Gross Volume (ft <sup>3</sup> ) |
|------------|--------------------|-----------|----------|-------------------------|--------------------------------------|
| USP95/5-B  | 6"                 | 7.01      | 44.49    | 93.0                    | 1.59                                 |
| USP95/5    | 6"                 | 7.01      | 44.49    | 93.0                    | 1.59                                 |
| USP95/6    | 6"                 | 7.01      | 49.53    | 102.0                   | 1.75                                 |
| USP95/7    | 8"                 | 7.87      | 54.57    | 111.0                   | 1.91                                 |
| USP95/8    | 8"                 | 7.87      | 59.61    | 120.0                   | 2.07                                 |
| USP95/9    | 8"                 | 7.87      | 65.24    | 129.0                   | 2.23                                 |
| USP95/10   | 8"                 | 7.87      | 70.28    | 138.0                   | 2.39                                 |
| USP95/11   | 8"                 | 7.87      | 75.31    | 147.0                   | 2.55                                 |
| USP95/12   | 8"                 | 7.87      | 80.35    | 156.0                   | 2.71                                 |
| USP95/13   | 8"                 | 7.87      | 85.39    | 165.0                   | 2.87                                 |

# Performance Curve





Since 1969  
**Unnati**<sup>®</sup>  
MOTORS | PUMPS





Disclaimer : Due to continual up gradation in design & specification in motor the technical details illustrated in this catalogue may differ with that of actual motor.



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**UNNATI PUMPS PVT. LTD**  
81, Amarnath Estate,  
Opp. Shayona Estate, Naroda Road,  
Ahmedabad-380 025 (Guj.) INDIA

Phone : +91-79-2220 3434  
Mobile : +91-99099 72592  
E-mail : [export@unnatipumps.com](mailto:export@unnatipumps.com)  
Visit us : [www.unnatipumps.com](http://www.unnatipumps.com)